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JUNE 13, 1931.

Vol. CXIV.



THE BEST HOUSE FOR ALL PHARMACEUTICAL PRODUCTS

AND FOR PERSONAL SERVICE

Proprietors of the "Silver Churn" Dairy Preparations.

OLDFIELD, PATTINSON & Co.
TELEGRAMS: "OPUM."
TELEPHONES: Blackfriars 4682 (2 lines). **MANCHESTER**

The "Allenburys" Orange Juice

Double Strength - Sweetened

The 'Allenburys' Orange Juice is designed to supply a potent source of the anti-scorbutic Vitamin C in a form convenient for infant feeding and other purposes. It is prepared from the juice of fresh oranges by a new process which retains the full quality of the fresh fruit. It is equivalent to double strength fresh orange juice and retains its full activity for a long period. An important point in connection with its use in infant feeding is that it contains no alcohol or chemical preservatives. A daily dose of half to one teaspoonful of 'Allenburys' Orange Juice will ensure full protection against scurvy in infants.

In bottles of 2/- each

Subject to usual Speciality discount

Allen & Hanburys Ltd., London, E.2.

Telephone: 3201 Bishopsgate (10 lines).

Telegrams: "Greenburys Edo London."

OZO FOOT-BATH TABLETS

A Quick-selling Line for the Summer

In Tins of 30 Tablets

Supplied in two styles

**WITH MAKER'S
NAME AND ADDRESS**

In Decorated Enamelled Tins

at **4/-** per dozen

(Gross lots 3/9 per dozen)

OR

**WITH CHEMIST'S
NAME AND ADDRESS**

In Tins with lithographed labels.
Chemist's name and address on
paper label

at **4/6** per dozen

(Gross lots 4/3 per dozen)

Effective Showcard
Available

Write to-day for sample of

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THE STANDARD TABLET CO. LTD.

HOVE, ENG.



"Smiler"
fed on Cow & Gate

Are you ready for the £500 "Smiler"

PHOTOGRAPHIC COMPETITION

MAY 1st—JULY 20th?

These are the displays we are providing.

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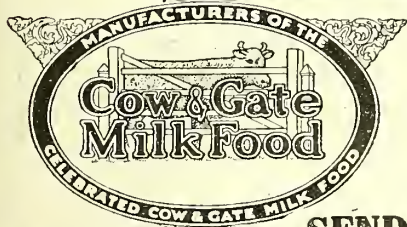
"B"

"C"



THERE IS A
50 GUINEA
PRIZE FOR
YOU!

INCREASE
YOUR
PHOTOGRAPHIC
TRADE



ALL CHILDREN UP TO THE AGE OF FIVE CAN
ENTER WHETHER FED ON COW & GATE OR NOT.

ADVERTISING IN THE LEADING WOMEN'S
PAPERS WILL LINK UP WITH THESE DISPLAYS.

SEND AT ONCE FOR FULL PARTICULARS

Please send me full particulars of the above competition and
the display material available.

Name
(Block Letters.)

Address
(Block Letters.)

COW & GATE LTD., GUILDFORD, SURREY.

OWING TO
UNCERTAIN
WEATHER
COMPETI-
TION HAS
BEEN EX-
TENDED TO
JULY 20th.

ARE CHEMISTS DISHONEST ?

In the "Daily Mail" of Friday, 5th June, under the illustration of a White-coated Chemists' Assistant appears the following:—

"BE FIRM

"You wouldn't let your shopkeeper sell you margarine for butter, or Chinese eggs for English New Laid. You wouldn't accept an inferior article to put more profit into the shopkeeper's pocket. When you ask for a LETRIK Comb and you are offered an imitation as 'just as good,' you may depend upon it that the salesman's interests are coming first and yours are coming last. There is always a reason for trying to sell you a substitute. Maybe more commission for the salesman, or more profit for the shopkeeper, maybe 'dud' stock that has to be shifted. HAVE NONE OF IT.

"BE FIRM. Insist on LETRIK or none at all. Only in that way can you get the marvellous results which the original genuine LETRIK Electric Comb can give you."

**WILL YOU ALLOW YOUR CUSTOMERS TO BE TOLD
YOU HAVE SOLD THEM A "DUD" ARTICLE?**

Over one million "WHITE'S ELECTRIC COMBS" have been sold since 1926. It is now suggested that Chemists cannot be relied on to give unbiassed professional advice. We have consistently told the Public to ask to see WHITE'S COMBS at their Chemist.

Letrik Combs first appeared on the market in Spring 1930—about 4 years after WHITE'S.

WHO, THEN, ARE THE IMITATORS ?

FEATURE WHITE'S COMB NOW

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WHITE'S MANUFACTURING CO., LTD.

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May and Baker's Guarantee

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(EXTRA LIGHT)

Contains less than

NITRATE (NO_3)

0.09 %

CHLORIDE (Cl)

0.01 %

CALCIUM (Ca)

NIL

DENSITY

1 lb. occupies a volume of
50 Fluid Ounces

for **Bismuth
Carbonate**

Better than B.P.

MB



MAY & BAKER, Limited
BATTERSEA

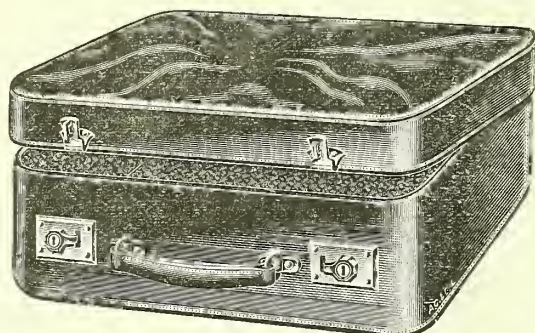
Manufacturing Chemists
LONDON, S.W.

BE PREPARED!

HOLIDAYS WILL SOON BE HERE

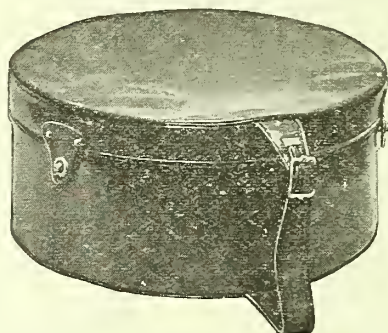
We are fully stocked in all holiday requirements. *Order Early.*

16in. Blouse or Week-End Case, Waterproof, Lined Fancy Cretonne with Pockets, Nickel Turnpiece Fasteners.



In assorted colours, Black, Blue and Brown 9/6 each.

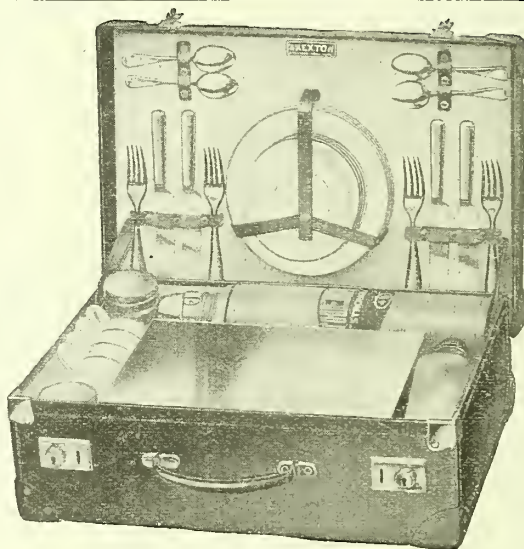
Assorted colours 6/6 each.



Ladies' Hat Case made of Glossy Waterproof, lined Fancy Cretonne, fitted with Pocket, Nickel Turnpiece Fasteners. The handle is adjustable for either hand or arm, very light and a most practical pattern.



Model No. 10. 2½ pints 3/3 each.



1940. For two persons 18/- each.
1942. For four persons 27/- each.

HIRST, BROOKE & HIRST, LTD.
Manufacturing Chemists
LEEDS

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LIQUID EXTRACT

OF

PYRETHRUM

British Manufacture

BIOLOGICALLY STANDARDISED

SAMPLE AND
QUOTATION
ON REQUEST

STAFFORD ALLEN & SONS, LTD.

Manufacturing Chemists

Cowper Street (Established 1833), London, E.C.2

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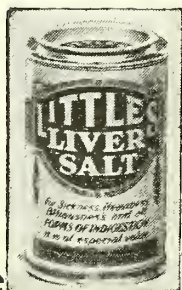
4 oz. TINS 6d.

Effervescent

8 oz. TINS 10½d.

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Quality, Cheapness, Popularity, Service, Demand, Turnover, Profit

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“LUTON” HAT DYES are heavily advertised, and 1931 is definitely a Straw Hat Year.

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Very special prices
and terms are
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Write for
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TAKE ADVANTAGE OF THESE SPECIAL DISCOUNTS:

5% for Cash in 7 days on all Orders.
2½% plus 5% for Cash in 7 days on
£4 Parcels.
5% plus 5% for Cash in 7 days on
£8 Parcels.

**SPECIAL 1931 BONUS
OFFER.**—In return for a
full “Luton” Window
Display lasting at least
7 days we will allow a
Bonus of one bottle to
every dozen on orders
for a minimum of 6 doz.

*This is additional to our
Special Discounts.*

ORDER TO-DAY FROM

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PROPRIETORS of AURORAL Cold Water Dyes, WINNER Stocking Dyes, WINNER Home Dyes, VELT, Etc.

A wise man
will turn **CHANCE** into
Good Fortune!

Are **YOU**
making a Window Display of
Moorland
BRAND
Indigestion
Tablets
?

The Sales are still increasing and hundreds
of Pharmacists are finding that a display
very quickly "brings home the bacon"

*Therefore—let this wonderful Quick Seller
increase YOUR regular weekly Profits!*



Well Printed

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We have proved to hundreds of chemists, both wholesale and retail, our claim to be "The Chemists' Printers"

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CHEMISTS' PRINTERS,
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You may not like them. We don't altogether care for them ourselves. But then it is always difficult for staid middle-aged folk to sympathize with the outlook of the rising generation.

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They are the people with the inclination to spend money on pleasure and personal appearance and the love of possession. Still more important to us they have the wherewithal to gratify that inclination.

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We must, therefore, try to understand these bright young things with their irresponsibilities and their extravagances. We must remember that our success

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There is nothing more modern in the whole of pharmacy than the House of Maw. Nothing more modern, more saleable and more profitable than Maw's Goods.

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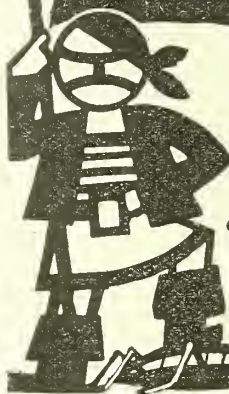
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In packets at 5d.,
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The sure destructive agent which may be
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quick clearance of rats and mice.
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A safe, simple and reliable remedy for Children's
Ailments is advertised so extensively in the
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The selling has been done before the mother
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is only common sense to claim she will buy other
family necessities from him. Moreover, the con-
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**Display
more—
sell
more !**

We provide
attractive
material
and offer—



BIG DISPLAY BONUS

To paraphrase an old saying, "Buy while the buying is good."

For every order of 2 gross you get 3 doz. 6d. bags free.

An order for 1 gross brings an extra dozen free.

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6 dozen - - - 24/- carriage paid.

One gross - - - 48/- „

See bonuses above.

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Wherever they are shown Mothaks sell at sight.
This is the time of the year when they sell best.
NOW is the time to **BUY**. You can make
handsome profits—one chemist sold 1,800 bags of
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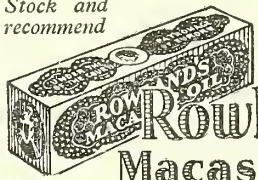
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Rowland's Macassar Oil keeps the hair naturally immaculate, for it controls the hair simply by making it soft and flexible.

Stock and
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From all
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Packed in 1-dozen Display Boxes.

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Invaluable during the Spring and Summer months for Soothing and Protecting the Skin, rendering it soft and supple. Useful either as a Day or Night Cream.

1-oz. 8/6 per doz.

2-oz. 15/- per doz.

4-oz. 25/- per doz.

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"HIBISCUS"

HAIR CREAM

for
well-groomed men



adds joy to the outdoor life.

Does your little bit of strenuous golf on a Wednesday afternoon give you the appearance of having "been through a gooseberry bush backwards"? You're the man who should use and sell "HIBISCUS." Spruce and smart! Cool as a cucumber!—even after beating bogie—after an all-run six—after a maiden over—after a love game—even after a double fault. How's that!

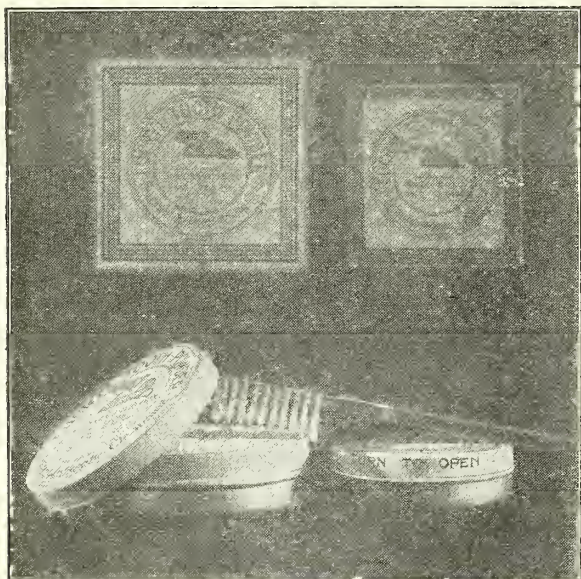
"HIBISCUS"—the "SMART SET"

PLAIN— WITH OIL— EXTRA OIL
Per dozen 9/- Gross lots @ 8/- Retail price 1/3

Ayrton, Saunders & Co. Ltd.

Manufacturing Chemists

34 Hanover Street :: LIVERPOOL, ENG.


Eueryl


Eueryl for you

The Dentifrice that leads to Larger Profits

Ensure for yourself the benefit of the generous terms that the Makers offer by keeping a plentiful stock of all Eueryl Products—Products that have been in continuous demand for over 30 years

Buy on Window display Terms and 30 days' credit and get—

PROFIT ON SELLING PRICE 43%

PROFIT ON BUYING PRICE 75%

Buy on Window Display Terms and send Cash with Order and get—

PROFIT ON SELLING PRICE 46.6%

PROFIT ON BUYING PRICE 87.5%

EUCRYL

DENTIFRICES

Send coupon below for illustrated price list and details of Eueryl Bonus Terms and ask for new Window Display Material

NAME _____

ADDRESS _____

C.D.I.

EUCRYL LIMITED, SOUTHAMPTON.

*If its Customers
you want*

YOU SHOULD STOCK

PETAL DUST

*"Wherein the subtle savour of the Flowers
sublimely dwells."*

THE GREAT FLORAL AIR PURIFIER

A TRIAL WILL CONVINCE YOU THAT—

PETAL DUST, when once shown, creates its own demand, and is therefore a valuable adjunct to every "go-ahead" store.

PETAL DUST, when displayed prominently upon your counter, will attract prudent customers by the fragrance of its unique odour, which to-day is of such universal admiration.

RETAILS IN PACKETS AT 4d. AND 8d. EACH.

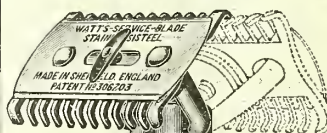
Attractive Advertising matter free on request.

Obtainable through all the usual Wholesale Houses or from
Sole Producers:—

THE ROSMARINE MANUFACTURING CO.
LONDON, S.E.1

THE NEW

WATTS-SERVICE SAFETY RAZOR



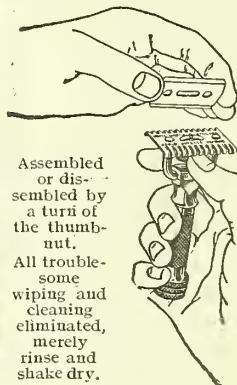
Holder and
Two Blades
in box

5/-

Super Sets from
12/6 to 42/-

The last
word in
**SAFETY
RAZORS**
with
**Stainless
Steel
Blade &
Holder**

Automati-
cally fixed
positive
shaving
angle for
each edge
Only two
parts.
Rustless in
any climate



Assembled
or dis-
sembled by
a turn of the thumb-
nut.
All trouble-
some
wiping and
cleaning
eliminated,
merely
rinse and
shake dry.

MANUFACTURED BY

JOHN WATTS (Sheffield and London) LTD.
Lambert Works, Sheffield, England.

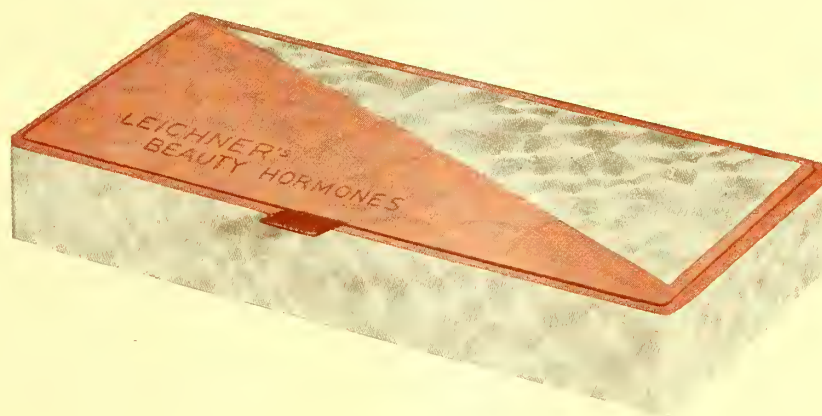
London Office and Showroom: 18 Soho Square, W.1

Over three generations ago LEICHNER utilised the attainments of science in the making of the first harmless cosmetics and thereby became pioneers, who popularised the use of cosmetic articles which now form such an important part of the chemist's business.

History repeats itself and to-day it is again LEICHNER who have applied the latest advances of science to a new cosmetic method:

LEICHNER BEAUTY HORMONES

now introduced, are a harmless but extremely active preparation for the regeneration of the skin and the re-formation of the contours.



Retail selling price per box of 50 tablets	£1 : 1 : 0
Retail selling price per box of 25 tablets	12 : 6

LEICHNER BEAUTY HORMONES

There is no doubt that the effect of Creams, Powders and Lotions on the skin is limited by physiological conditions. When the normal activities of the human system relax, which may occur at any time owing to approaching age or ill-health, the unsatisfactory appearance of the skin can no longer be corrected by applying creams or skin foods. A more efficacious corrective is required.

In a series of independent investigations continued over many years, Leichner have discovered a particularly active pluri-glandular combination that governs the dermatological conditions and the promotion of cellular reconstruction.

LEICHNER BEAUTY HORMONES have the special function of stimulating the formation of new and perfect cellular tissue, which means nothing less than complete rejuvenation of the skin and of the outlines of the human body.

The Medical Profession have tested and approved of Leichner Beauty Hormones and found that they may be taken regularly with perfect safety, as they will never give rise to adverse reactions of any kind.

As it is impossible to administer Hormone preparations to the tissues in the usual form of cosmetics, Leichner Beauty Hormones are supplied in tablets, one tablet should be taken in a little water twice daily, morning and evening.

LEICHNER BEAUTY HORMONES are sold in boxes of 50 tablets, price £1 1s. 0d., or 25 tablets, price 12s. 6d., usual trade discount.

A few announcements will appear in the Press but, in accordance with their regular policy, Leichner depend on the co-operation of the individual Chemist for the effective sales-promotion of their new product.

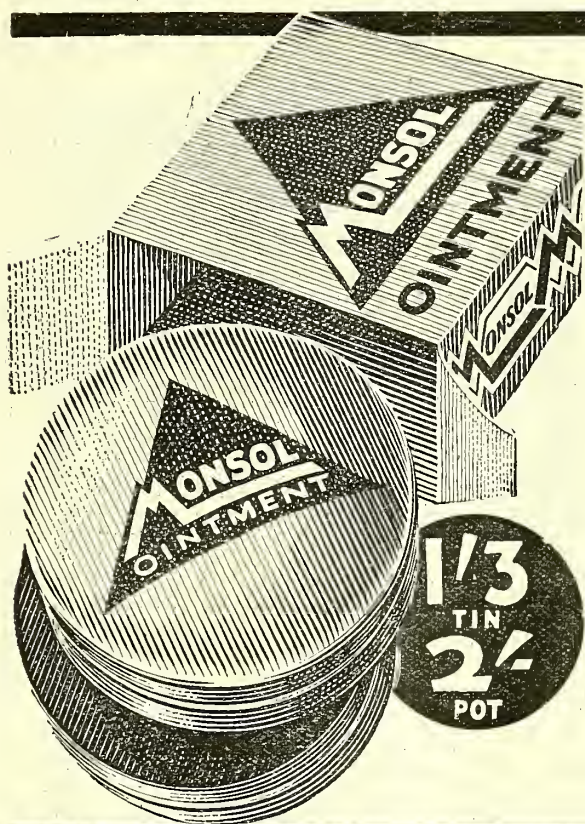
If you desire any further information please write to :

L. LEICHNER (LONDON) LIMITED

11-12 Pollen Street, Hanover Street
London, W.1

Phone :
Mayfair 7031

Telegrams :
Fettpuder - Wesdo - London



... tell them
★ **WHY** it is a
BETTER OINTMENT

★ Monsol is the most powerful of all germicides on living tissue, yet Monsol Ointment is wonderfully soothing to even inflamed surfaces. Not too soft, not too hard, it penetrates deeply through the skin, leaving a protective film inside to prevent the entry of further germs.

Doctors recommend it for RINGWORM, ECZEMA, BOILS and all skin complaints—its sale will do you credit and show a good profit. Display terms from:—

MONSOL DISTRIBUTING AGENCY
168/172, DRUMMOND STREET, LONDON, N.W.1.

The original combined Cream and Powder

la **VELOUTY**

de **DIXOR** Paris



The advertised line that you are asked for.

NOW ON P.A.T.A.

Samples free upon receipt of trade card or billhead.

PRICES:—No. 1. Handbag tube 3/- doz. Retail -/4½
No. 2. Small tube - 4/- " " -/6
No. 3. Medium tube 7/- " " 1/-
No. 4. Large tube - 14/- " " 2/-
No. 5. Super tube - 22/- " " 3/-
Pots - - 21/- " " 2/9

Made in four shades:

WHITE, IVORY, NATURAL and OCHRE.

Obtainable from your regular Wholesaler or direct from the Sole British Agents:

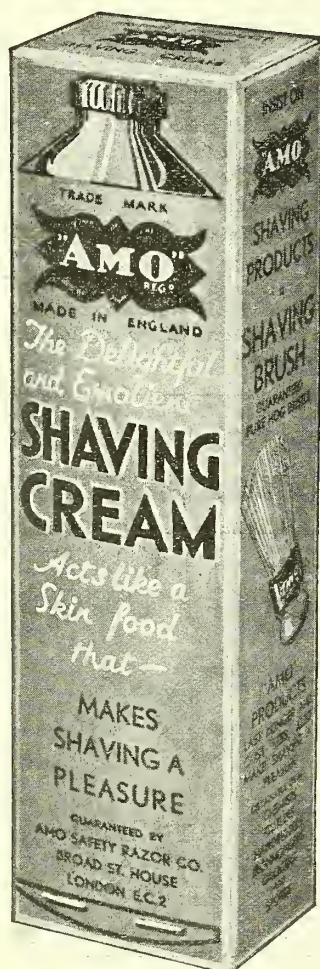
DEBACQ & HARROP,

68 Newman Street, Oxford Street, London, W.1.

Sole Distributors for

Northern Ireland: ROBERT MAYRS & CO., 43 Chichester Street, BELFAST
Irish Free State: MAY, ROBERTS & CO. LTD., Grand Canal Quay, DUBLIN

AMO GIANT TUBE SHAVING CREAM



**BRITISH
PRODUCT**

A DELIGHTFUL
& EMOLLIENT
SHAVING
CREAM MADE
OF SUPERIOR
INGREDIENTS
CONTAINING
PROPERTIES
FOR THE
PROTECTION
OF THE SKIN

CONTENTS
4 OZS. NETT

RETAILS

1/-

SIZE $7\frac{1}{4} \times 2 \times 1\frac{1}{2}$
CELLOPHANE WRAPPED

PACKED 1 DOZEN
— IN —
DISPLAY CARTON

APPLY FOR
TERMS OR
SEND 9d.
FOR SAMPLE
POST PAID

AMO SAFETY RAZOR BLADE CO. LTD.
BROAD STREET HOUSE
LONDON, E.C.2

NEW BUSINESS !!

ARE YOU CATERING
FOR THE

“HIKER”

THE POPULAR HOBBY
REQUIRES ONLY A LIGHT
KIT, BUT YOU CAN SUP-
PLY MANY OF THE ITEMS

**PLEASE GLANCE
THROUGH OUR LIST**

“NEWBERYS” (F. NEWBERY & SONS LTD)

CARDIFF
Tredegar
House,
Hope St.

CHARTERHOUSE SQUARE
LONDON, E.C.1

LIVERPOOL
College
Lane



**BETTER BE SAFE
THAN SORRY . . .**

**CUSTOMER-SATISFACTION
IS STILL THE BEST POLICY**

Protect your trade by protecting
the customer. Sell Nuctone ex-
clusively for recolouring of hair.

Order from your usual Wholesaler

Nuctone
SAFE FOR GREY HAIR



A REAL BEST-SELLER

A flacon of CHERAMY EAU DE COLOGNE - that sells to Women and Men alike. Indispensable when travelling, for the toilet at home, after your games, etc. Useful as a refreshing lotion in Summer - as a stimulant at other seasons. Something better than the ordinary Cologne. Prepared with pure floral essences and pure alcohol.

In 18 assorted perfumes, Floral and Bouquet; fragrances to suit every taste. A beautiful Stand which attracts attention and assists your sales is provided by us and supplied free with orders. Order now. Ready sales are awaiting you.

Retail price 2/6 in all perfumes

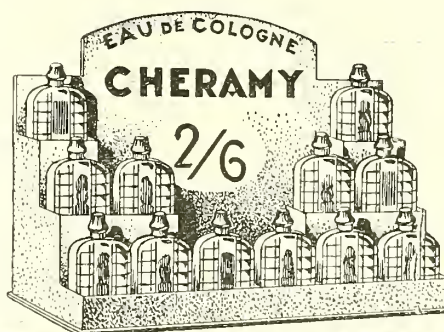
18/- per dozen nett wholesale,
also supplied in larger sizes.

In Floral perfumes :

SWEET PEA - CHYPRE - ROSE - LILAS
VIOLET - ŒILLET (CARNATION) - JASMIN
MUGUET (LILY OF THE VALLEY)
FOUGÈRE (FERN) - MIMOSA - LAVANDE
1 CHEVREFEUILLE (HONEYSUCKLE)
VERVEINE (VERBENA).

in Bouquet perfumes :

CAPPI - FAUSTA - OFFRANOE
JOLI SOIR - PARFUM X.

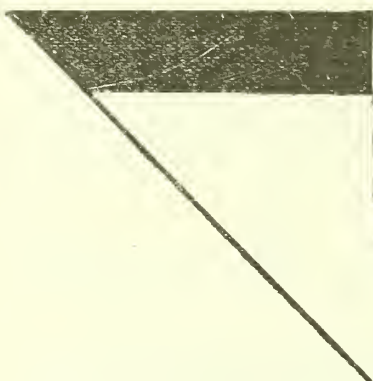


EAU DE COLOGNE

CHERAMY

P A R I S

LARDEN ROAD PARFUMERIES DE PARIS LIMITED ACTON - LONDON



HALEX

The makers of Halex announce their bonus period. And a remarkable bonus it is! On every free brush for which your order qualifies you, the whole retail price is your profit!

Listen! Under the new Halex Bonus terms every order for 3 doz. Halex Brushes brings you, as last year, 6 FREE BRUSHES. $3\frac{1}{2}$ doz. ordered brings you 7 FREE BRUSHES; 4 doz. ordered brings you 8 FREE BRUSHES—and so on, up to 6 doz. at which point a new additional bonus comes into operation as well! For if you order 6 doz. brushes at a time, you receive, as well as the ordinary bonus above, an extraordinary bonus, namely THREE HALEX No. 7 BRUSHES FREE! And so with every half-gross! Now then! Never was such a bonus!

IMPORTANT

This wonderful Bonus offer only holds you to two conditions:

A. Each order must be for not less than 3 doz. Halex Brushes and must be received not later than June 30th.

B. The Halex Summer Display to be exhibited in your window or on your counter for a fortnight commencing not later than June 30th.

N.B. An accumulation of small orders for less than 3 doz. brushes does not qualify for the Bonus terms.

Here are the order forms and full particulars. And remember! Orders must be here by June 30th!

HALEX

BONUS

[A]

HALEX BONUS TERMS

SEND IN THIS ORDER FORM TO-DAY FOR QUANTITIES OF 3, 4 AND 5 DOZEN TOOTHBRUSHES

All orders under the Halex Ordinary Bonus Plan should be sent in on this special order form. Extra copies are obtainable from your usual wholesaler, or from the British Xylonite Co., Ltd., Hale End, London, E.4.

To your usual wholesaler.....

Please supply me/us with.....dozen Halex toothbrushes as listed below, together with the free display material and one FREE brush in every half-dozen toothbrushes ordered, in consideration of my exhibiting the Halex Window Display for a fortnight commencing not later than June 30th.

State No. of each required.

Supplied in medium only.

Halex No. 1.....dozen @ 6/- per doz.	.....hard	.....medium
Halex No. 2.....dozen @ 7/6 per doz.	.....hard	.....medium
Halex No. 3.....dozen @ 9/- per doz.	.....hard	.....medium
Halex No. 4.....dozen @ 11/- per doz.	.....hard	.....medium
Halex No. 5.....dozen @ 13/- per doz.	.....hard	.....medium
Halex No. 6.....dozen @ 15/- per doz.	.....hard	.....medium
Halex No. 7.....dozen @ 13/- per doz.	.....hard	.....medium

Each brush in a carton. Packed in boxes of half-dozen hard or half-dozen medium, carriage paid.

NOTE.—Only the standard assortment of colours can be sent.

The Halex showcase for displaying your brushes, if required, is included FREE in addition to the Halex Window Display, with first orders for not less than 4 dozen Halex Toothbrushes. Please say whether showcase is wanted. YES..... NO.....

NAME.....

ADDRESS.....
T.6

[B]

HALEX EXTRA BONUS TERMS

SEND IN THIS ORDER FORM TO-DAY FOR QUANTITIES OF 6 DOZEN TOOTHBRUSHES AND UPWARDS

All orders under the Halex Extra-Ordinary Rising Bonus Plan should be sent in on this special order form. Extra copies are obtainable from your usual wholesaler, or from the British Xylonite Co., Ltd., Hale End, London, E.4.

To your usual wholesaler.....

Please supply me/us with.....dozen Halex Toothbrushes as listed below, together with the FREE Display Material,

one FREE brush in every half-dozen toothbrushes ordered

PLUS the rising bonus of THREE Halex No. 7's in every six dozen ordered, in consideration of my exhibiting the Halex Window Display for a fortnight commencing not later than June 30th.

State No. of each required.

Supplied in medium only.

Halex No. 1.....dozen @ 6/- per doz.	.....hard	.....medium
Halex No. 2.....dozen @ 7/6 per doz.	.....hard	.....medium
Halex No. 3.....dozen @ 9/- per doz.	.....hard	.....medium
Halex No. 4.....dozen @ 11/- per doz.	.....hard	.....medium
Halex No. 5.....dozen @ 13/- per doz.	.....hard	.....medium
Halex No. 6.....dozen @ 15/- per doz.	.....hard	.....medium
Halex No. 7.....dozen @ 13/- per doz.	.....hard	.....medium

Each brush in a carton. Packed in boxes of half-dozen hard or half-dozen medium, carriage paid.

NOTE.—Only the standard assortment of colours can be sent.

The Halex showcase for displaying your brushes, if required, is included FREE in addition to the Halex Window Display, with first orders for not less than 4 dozen Halex Toothbrushes. Please say whether showcase is wanted. YES..... NO.....

NAME.....

ADDRESS.....
T.6

TOOTHBRUSHES We are seven!

RETAILS
4/- PER DOZEN
COMPLETE

6D. EACH

THIS DISPLAY BOX..
INVITES PURCHASE..



A New Cap....

THAT KEEPS
NAIL POLISH BOTTLES — NEAT AND CLEAN.

12 only 6d. bottles of L'onglex Liquid Nail Polish attractively presented in "Sale Compelling" counter display outer. Every bottle fitted with up-to-date "screw-on" Bakelite cap with camel hair brush securely fitted thereto. No possible chance of evaporation or leakage. L'onglex Nail Polish never peels or changes colour. Dries quickly, smoothly, and provides a long lasting nail sheen that actually improves with washing.

BUY THE

A QUICK SELLER AND SURE REPEATER

L'ONGLEX BONUS PARCEL

30/- assortment carries 1 dozen 6d. **40%**
Liquid Polish free and returns

20/- assortment carries ½ dozen 6d. **37%**
Liquid Polish free and returns

MAKE SELECTION FROM CATALOGUE OBTAINABLE FROM
L'ONGLEX LABORATORIES LIMITED...
12^A KENWAY ROAD, EARLS COURT, LONDON, S.W.

L'ONGLEX PRESS ADVERTISING HAS STARTED AND DOUBLES SALES

NEW! THE MYATT DAYMARK RAZOR



From all
Wholesalers.

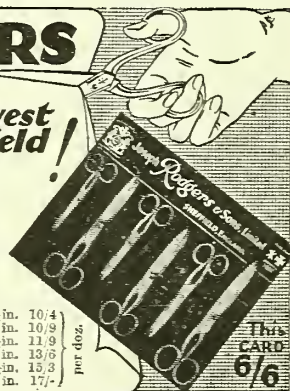
Sole Manufacturers
W.J. Myatt & Co. Ltd.
BIRMINGHAM

2/6 RETAIL
RETAIL
DISCOUNT
25%

RODGERS QUALITY —and the lowest price in Sheffield!

Rodgers Scissors have always sold on quality, now they sell on price as well. The card illustrated costs you 6/6 and the scissors sell at prices ranging from 1/4 to 2/2, showing you a net profit of 3/3 per card. Buy British and help to reduce unemployment and taxation.

Order Card No. E. 7174/C.D. and see how the scissors sell
4 1/2 in. 10/4
5 in. 10/9
5 1/2 in. 11/9
Joseph Rodgers & Sons, Ltd. 6 in. 13/6
Cutlery to His Majesty, 6 1/2 in. 15/3
SHEFFIELD. 7 in. 17/-



OVER 53% !! This Profit on your outlay is guaranteed to you by The FLEET Blade



A Sheffield
Product from the
Molten Steel to the
Finished Blade.

Retails at 3 for 7½d.

Liberal trade-making samples
given to new stockists.

Bonus offered for Window
Displays.

Sample and terms from sole makers:—

DOMINION STEEL CORPORATION, Ltd.
Fleet Works, Queen's Road, SHEFFIELD.

●

KOTEX SAYS

*"The tides
of progress
wait for no man"*



JUST as Canute, according to the story, was unable to stem the progress of the tide, so to-day the tide of progress sweeps on taking everything with it. But it is one thing to be carried along with it, and another to be forced under by it.

This allegory serves to illustrate that the man who sails on with the tide of progress is the man who grasps his opportunity, who is not content to *do* business but to *increase* his business by logical and proved methods—viz. co-operation with his manufacturer and his customer.

Kotex is part of the Tide of Progress.

With the rush and tear of the modern woman's day came the realization that old-fashioned methods would not do.

Kotex, your women customers know, is made and packed under medical supervision and is of proved efficiency. It has been demonstrated time and again by the Kotex laboratory that Kotex alone gives complete deodorization.

Kotex is the safe sanitary seller, which has already 7,000,000 users all over the world. There are some in your district and many more to come, for Kotex fame is rapidly increasing and Kotex advertising is pulling its weight. This advertising paves the way for Kotex customers in your shop.

Are you getting your share of this rapidly increasing business? We can and will help you to do so.

Sail on with the Tide—

—You can, by stocking Kotex and carrying good supplies, but, more important, by displaying Kotex so that your women customers *know* you stock it, without having to ask. Embarrassment is very often a barrier to an otherwise straight-forward sale.

Give Kotex prominent display in your window. We will supply you with our metal counter stand. Put this silent seller into action, and display packets on your counter *all the year round*. Just wrap up a few packets so that any of your customers can simply walk up, take a packet, and complete the sale for you.

Attention to matters of this kind are the means to win sales of other lines, and give you the lasting goodwill of your customer.

So, link up with our Service Department, and let us supply you with showcards—or a counter stand. Send for a supply of booklets, "Marjorie May's Twelfth Birthday," for distribution amongst your customers.

KOTEX LIMITED

Best sellers

The public is asking for **ZEAL** CLINICAL THERMOMETERS because they are:-
GUARANTEED TO STAY ACCURATE
CONSISTENTLY ADVERTISED

Made by
ZEAL

-the name the public knows.

G. H. ZEAL, LTD.,
 75 & 77, St. John St., London, E.C.1.



"SURCO"

RELIABLE

ELASTIC HOSIERY

SEAMED & SEAMLESS

For special garments to measure we maintain a 24 hour service.

:: BODY BELTS ::
 TRUSSES :: SUNDRIES

Write for Catalogue.

SURGICAL HOSIERY CO., LTD.

Russell Street :: NOTTINGHAM

Telephone No.: 75903 Telegrams: SURGICAL, NOTTM.

THE

R. H. HEWARD COMPANY

Surgical Appliance Manufacturers

Telegrams:
 Beltruss, Twickenham.

Telephone:
 Popesgrove 2094.

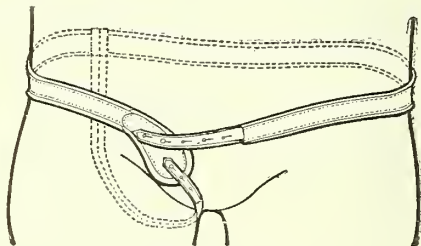


FIG. 344.

RIGHT SIDE INGUINAL.

Every kind of truss, from the simplest to the most elaborate, made on the premises and despatched the same day.

Ask for your truss to be made by

THE R. H. HEWARD COMPANY

Wholesale Makers to the Trade.

CROWN ROAD WORKS, TWICKENHAM

We supply no one but Chemists and Druggists with
"SAFEGUARD" Rubber Goods
 They are of Highest Quality and Packed Hygienically.

Samples and Prices on application.

BURGE, WARREN & RIDGLEY, LTD.

91/92 GREAT SAFFRON HILL, E.C.1

Phone: Holborn 0050. Telegrams: Pessaries, Smith, London.



'3' Arrow Mark

Remember to order **"3 ARROW BRAND"**
HYPODERMIC SYRINGES &

"77" STAINLESS STEEL NEEDLES

Guaranteed and Reliable. Give satisfaction to yourself and your customer.

Obtainable through all the leading Wholesalers.

Free samples of needles can be obtained from

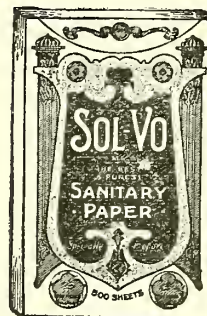
ALBERT H. JACOBS, 157 Farringdon Road
 London, E.C.1

NORVIC
 CRÊPE
BANDAGES

SOL-VO SANITARY ROLLS & PACKETS.



SOL-VO REC^d THE BEST & PUREST SANITARY PAPER



	per doz.		per doz.
Three dozen Rolls ...	7/- net.	Three dozen Packets ...	10/- net.
Half gross " ...	6/6 "	Half gross " ...	9/6 "
One gross " ...	6/- "	One gross " ...	9/- "
Five gross " ...	5/3 "	Five gross " ...	8/3 "

CARRIAGE PAID. CASES FREE.

FORD, SHAPLAND & CO. Ltd.

LABELS & SHOWCARDS — PRINTERS — CARTONS & ENVELOPES.
GT. TURNSTILE, HIGH HOLBORN, LONDON, W.C.1

TELEGRAMS: FORSHAPCO. WESTCENT, LONDON.

TELEPHONES: HOLBORN 4695 (3 Lines)

"STERAID" Regd. Dressings

Patent No. in Great Britain
221761/1924 and patented in all
the principal foreign countries.

Patent Rotating Canister packing to retain aseptic conditions. In use, only
the amount required is withdrawn and cut off. The remainder is not exposed.

GAUZES.				LINTS.			
Minimum Public Prices Each	Minimum Trade Prices Per Doz.	Minimum Public Prices Each	Minimum Trade Prices Per Doz.	PLAIN AND BORIC.	Min.	Min.	
6-yd.3-yd.1-yd.	6-yd.3-yd.1-yd.	6-yd.3-yd.1-yd.	6-yd.3-yd.1-yd.	2 in. wide	1/1 each	9/6 doz.	
Sal Alembroth	1/11 1/2 -7 1/2	17/3 10/6 5/7 1/2	Plain Absorbent 1/8 1/0 1/2 -7 15/- 9/4 5/3	4 "	1/7 1/2 "	14/7 "	
Sublimate			Double Cyanide 2/- 1/2 1/2 -8 17/6 10/7 5/9	6 "	2/2 "	19/8 "	
Carbolic			Iodoform 5% } 2/8 1/6 1/2 -9 24/- 13/10 6/9	Approx. 6 yds. Plain & 4 yds. Boric			
Boric			Picric				

ORDER THROUGH USUAL WHOLESALE.
ROBERT BAILEY & SON LTD., Marriott Street Mills, STOCKPORT

Phone: Stockport 2794 and 4166.

London Office: SOUTHAMPTON ROW, W.C.1

Wires: "Undisputed, Stockport."

Surgical Rubber Goods

VENUS, OWL, GODIVA
& BALLOON BRANDS.

NOTICE.—Several instances of the sale of VENUS BRAND goods
other than their make having been brought to the notice of Joseph Harris & Co., their Solicitors
are instructed to take proceedings against anyone (Makers or Vendors) fraudulently using the
name or design of VENUS or any imitation thereof in connection with Seamless Moulded Goods.

SEAMLESS MOULDED SURGICAL GOODS, PESSARIES, HOT WATER
BOTTLES, URINALS FOR NIGHT OR DAY USE. Wholesale & Export only.
JOSEPH HARRIS & CO., Rubber Works, Broadheath, Altrincham.

PRECIPITATED CHALK

LIGHTEST—MEDIUM—DENSE.

And All Other Grades To Suit Every Purpose.

CHEMICALS FOR ALL INDUSTRIES.

'Phone: Mansion House 7300.

Tel. Add.: "Levermore, Phone, London."

A. LEVERMORE & CO. LTD. ABC Codes.
110 CANNON STREET, LONDON, E.C.4. 5th & 6th Editions.

PURE ORANGE WINE

A. MILLAR & CO., LTD., DUBLIN

(VINUM AURANTII B.P.)

Prepared in strict accordance with the Formula of the British Pharmacopoeia.

(Wholesale only.)

Samples from Head Office, Thomas Street, DUBLIN, or London Office, 74 Great Tower Street, LONDON, E.C.3.

FRED^K. FINK & CO.

10 & 11 MINCING LANE, LONDON, E.C.3.

TEL.: ROYAL 5094.

GUMS, ARABIC and TRAGACANTH as Imported or
Finely Powdered. :: SHELLACS ALL GRADES.

"LOCKSAL"

MEDICATED BATH SALTS

The New Brine Bath Idea

for Rheumatism, Gout and all Kindred Ailments
are being advertised to the public and are recommended by the Medical
profession. Neatly packed. Good profits. Your usual wholesaler can
supply. Advertising matter and counter bills gladly sent on request.

Special terms from the manufacturer.

"LOCKSAL" 86 PRINCESS STREET, MANCHESTER

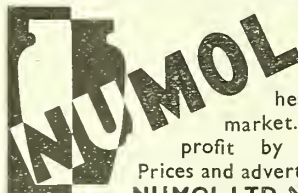
Chemists' Fittings

When you want Shop Fittings it will pay you to send to

GEORGE COOK

The Chemists' Working Shopfitter.

27 Macclesfield Street, City Road, LONDON, E.C.1
30 years' experience. Rough Sketches free.



● Doctors are telling
your customers to take

NUMOL—the best
health-building food on the
market. Stock up with it now—
profit by the increasing demand!

Prices and advertising material from
NUMOL LTD. NEWCASTLE-ON-TYNE

TATCHO Sample Size 6^D

THE
HAIR RESTORER

6 Bottles in Case for
Counter Display,
4/- PER DOZ.

PROMOTES, PRODUCES,
BEAUTIFIES THE HAIR

1/3 size .. 12/6 per doz.
2/3 size .. 26/- per doz.

TATCHO Laboratories, 5 Great Queen Street, London, W.C.2

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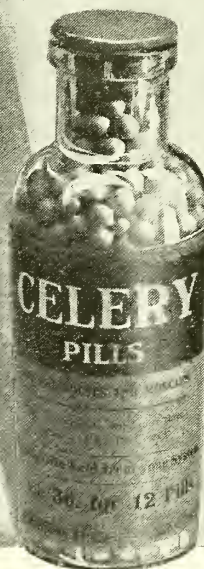
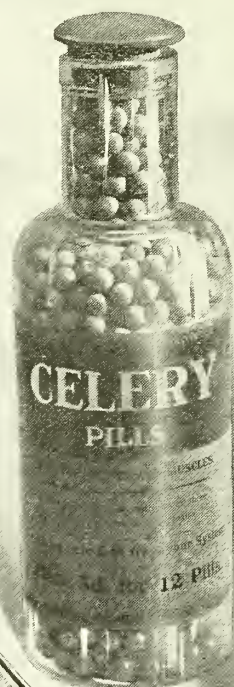
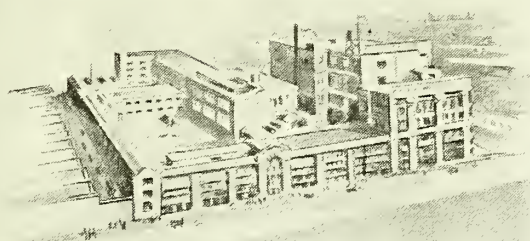
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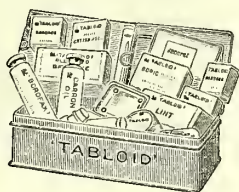
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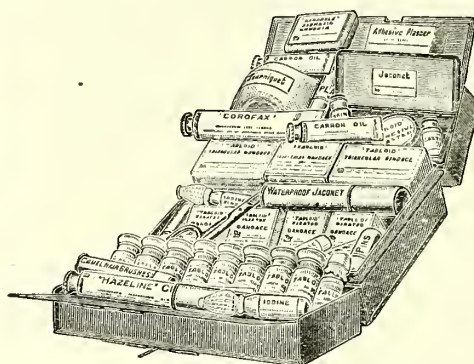
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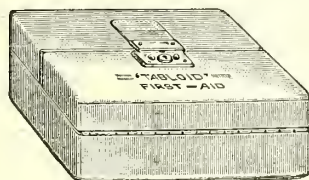
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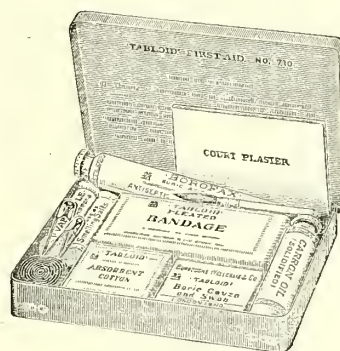
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English and Welsh News

B.D.H. at Brighton

THE annual outing of the employees of The British Drug Houses, Ltd., was held at Brighton on June 6, between 700 and 800 attending. The managing director (Mr. C. A. Hill) presided, and all the directors were present. The outing proved an unqualified success, thanks to the untiring efforts of the stewards. After dinner, which was held in the Corn Exchange, a vote of thanks to the directors was proposed by the works manager (Mr. H. S. Collins) for making the outing possible and for the generous support of the Board to the Sports Association. He also voiced the gratification of the employees at the advent among them of Mr. Alan Hill, the youngest son of the managing director, whose popularity was evident. All returned feeling that this outing had been the most successful of many.

Inquests

The West Middlesex coroner held an inquiry, on June 2, concerning the death of Mr. R. H. Dawkes, a director of Robert Dawkes, Ltd., chemists, Horn Lane, Acton, W. Medical evidence showed that death was due to hydrocyanic acid poisoning, and an open verdict was recorded.

An inquest was held at Wallasey, recently, concerning the death of Fanny Matthews, a domestic servant, who was found suffering from carbolic acid poisoning, and died in hospital. The hospital surgeon said there were no restrictions as to the sale of lysol, and thought it ought to come under the Dangerous Drugs Acts. The coroner, in returning a verdict of "Suicide while of unsound mind," said: "It always strikes me that if you want poison you can get it, even if you have to sign for it. If you want a poisonous weed-killer for your garden, you can get it. I cannot see much virtue in the restriction that is placed on the sale of poison. You can always get it if you are known, and in a good many cases if you are not known."

Deaths from taking a solution of ammonia are reported from Chiswick, London, W. (misadventure), and Bournville, Birmingham (suicide).

Birmingham

Local traders have made a strong protest against the proposed one-way traffic in the centre of the city.

There was a good attendance at the annual sports day of the Birmingham Pharmaceutical Association, held at Rednal on June 10. Games were indulged in and an excellent tea followed.

Sheffield.

It has been decided to hold "joy nights" during October and November on similar lines to those of last year.

The local branch of the Pharmaceutical Society has voted £7 10s. for prizes to pharmacy students attending classes at Sheffield Commercial College and Barnsley Technical School.

Miscellaneous

THE eighty-first annual report of the Liverpool Chemists' Association, issued recently, gives a *résumé* of the work of that body during the past year. The balance in hand amounts to £58 19s.

IN THE COURTS.—At Lambeth Police Court, London, recently, George H. W. Spedding, drug-store proprietor, High Street, Peckham, S.E., was fined 20s., with costs, for having sold a bottle of chlorodyne.

FIRE.—An outbreak of fire occurred recently at the premises of the Salutaris Water Co., Ltd., Fulham Road, London, S.W. A building used as a workshop and store had a portion of the roof destroyed and the contents damaged. The cause of the outbreak is unknown.

Irish News

Dangerous Drugs (Consolidation) Regulations Amendment

Sir Richard Dawson Bates, Minister of Home Affairs for Northern Ireland, has made an order, gazetted on June 6, that Regulation 5 of the Dangerous Drugs (Consolidation) Regulations, 1928, as applied to Northern Ireland by the Dangerous Drugs Regulations (Northern Ireland), 1929, shall be amended by the addition of the following clause:—

"And provided that no person shall be deemed to be an authorised person within the meaning of this article, who, having been similarly authorised in Great Britain or the Irish Free State, has had such authorisation withdrawn."

Brevities

The Irish Free State Minister for Lands and Fisheries mentioned in the Dail recently the improved prospects of the kelp industry. With better methods of handling, it was estimated, Mr. Lynch said, that the value of the product would rise to not less than £10 a ton. His Department was taking a permanent interest in the industry; and it was proposed to extend, this year, operations in connection with carrageen moss.

A statement of affairs of Mr. Wm. C. H. McKinty, R.D., 200 Newtownards Road, Belfast, shows assets, after deducting £52 to meet preferential claims, estimated to realise £93, liabilities £1,364, bankers' claims £39, and claims of cash creditors £754. At a meeting of the creditors on June 4 it was decided to accept a composition of 3s. 4d. in the pound in cash. Creditors include:—J. & J. Haslett, Ltd., £107 5s.; Fred Storey, Ltd., £61 5s.; Shaw & Jamieson, Ltd., £54; T. McMullan & Co., £32; F. W. Hampshire & Co., Ltd., £17 5s.

Scottish News

Brevities

Hugh Elder & Son, grain merchants, Dunfermline, have applied to the Town Council for a licence to sell agricultural and horticultural poisons.

A correspondent writes:—"Scottish chemists who have tried the sale of medicines by motor-van have decided, with few exceptions, that the effort does not pay."

An injured bull paid an unwelcome visit to the pharmacy of Mr. A. W. Shirras, chemist and druggist, Powis Terrace, Aberdeen, recently; after doing considerable damage the animal bolted from the shop.

At a recent meeting of the Public Assistance Committee of Glasgow Corporation the following tenders were accepted:—Drugs, cod-liver oil and other pharmaceutical oils, T. & H. Smith, Ltd.; capsules, pills and tablets, Cockburn & Co., Ltd.; malt extract, Brown, Gray & Co., Ltd.

Edinburgh

The opening days of June have been as cold as November, causing an unexpected run on malts and cough mixtures.

The staff of Pinkerton, Gibson & Co., Ltd., manufacturing chemists, Edinburgh, were entertained to their annual outing by the directorate on May 30. Favoured with excellent weather a party of about eighty journeyed in motor-coaches to Ayr. The outward route was by upper Clydesdale and the southern uplands of Scotland to Leadhills, Wanlockhead, through the Menock Pass to Sanquhar, and then by the Ayrshire hills to the old town of Ayr, where several happy hours were spent. The return journey was by Newmilns to Strathaven and thence by the Calders to Edinburgh.

General Medical Council

(Continued from the C. & D., June 6, p. 651)

DENTAL BUSINESS

On reports from the Dental Board of the United Kingdom (*C. & D.*, May 30, p. 627; June 6, p. 651) the Council directed that the names of the following persons be erased from the Dentists Register:—John Forbes McDonald Connor, 28 Queen Street, Belfast; Thomas James Willis, 120 Abbots Road, Cheam; Ernest Harold Christopher Bailey, Harvard House, 11 Collins Street East, Melbourne; James Brown Gibson, 4 Killermont Street, Glasgow.

PHARMACOPEIA COMMITTEE

The following were appointed members of the Pharmacopœia Committee:—The president (chairman), Mr. Bone, Sir Farquhar Buzzard, Dr. Dale, Mr. Edington, Dr. Kidd, Mr. Leathes, Dr. Mackintosh, Dr. Magennis, Sir J. Moore, Sir Humphry Rolleston Sir N. Walker, Sir Holburt Waring.

The Committee reported to the Council that the number of copies of the British Pharmacopœia, 1914, sold between November 21, 1930, and May 29, 1931, was 631. The number sold in the year ended May 29, 1931, was 1,725, about the same as in the preceding year. The stock in hand is 1,300 copies. In view of the progress made with the preparation of the new Pharmacopœia this stock will probably just suffice. The Committee have received and approved the following report from the Pharmacopœia Commission:—

... The first draft of the Pharmacopœia is now nearing completion, though some difficult portions are still outstanding, and the results of investigations now proceeding must be awaited before satisfactory descriptions can be drafted for the Pharmacopœia. These investigations, which are concerned with the improvement of the assay processes for alkaloidal drugs and the amplification of the descriptions of vegetable drugs by the addition of accurate details of microscopical characters, are being pressed forward, and it is expected that the monographs concerned will be available very soon. ... The Commission have been in regular correspondence with the Canadian Committee on Pharmaceutical Standards, and have been helped by their comments and suggestions on specific points arising during the revision. The Canadian Committee have raised with the Commission the question of the relation between the British Pharmacopœia and an Addendum to the Pharmacopœia which, it is intended, shall be prepared by the Canadian Committee. The Canadian Committee have suggested a procedure by which a Canadian Addendum would be made an effective authority and standard in Canada, and the Commission refer the suggestion to the Pharmacopœia Committee for their consideration. The Commission have received, from the Australian Committee on Pharmacopœia Revision, a report on the proposed contents of the Pharmacopœia, which has been carefully considered by the Commission. The Commission continue to be in regular correspondence with the Committee of Revision of the United States Pharmacopœia. ... The friendly relationship with the Committee of Revision of the British Pharmaceutical Codex continues and there is a regular interchange of views and information. ...

(To be concluded.)

Coming Events

This section is reserved for advance notices of meetings or other events. These should be received by Wednesday of the week before the meetings, etc., occur.

Wednesday, June 17

South-West London Chemists' Association and Branch, Maw's Sports Ground New Barnet, at 2.30 p.m. Annual competition. (Inter-Association Sports, June 25.)

Friday, June 19

Edinburgh Chemists', Assistants' and Apprentices' Association, 36 York Place, Edinburgh, at 8 p.m. Practical botanical demonstration by Mr. J. Rutherford Hill, Ph.C.

Sporting Events

THE annual sports gala and garden party promoted by Burroughs Wellcome & Co., was held in the spacious grounds attached to the Wellcome Club and Institute, Dartford, on June 6. Weather conditions were all that could be desired. The attendance reached a total of 1,250, including Mr. G. E. Pearson (general manager), Dr. Jowett (works manager), Mrs. Jowett, and representatives of the head office. A concert on the croquet lawn, a whist drive, an open air dance, a netball match, and a display of fireworks followed the sports.

THE B.D.H. golf trophy was competed for on May 28, on the Chesterfield Golf Club links at Walton, by the chemists of Sheffield, Nottingham and Derby. There was a capital attendance. After the match the competitors were entertained to tea by The British Drug Houses, Ltd., and the cup was presented to the winner, Mr. S. Furnival, by Mr. Alan Francis (a director of the B.D.H.), who came from London specially for the occasion. Mr. Francis congratulated the winner. Mr. S. Furnival responded. Mr. C. W. Hobson (Sheffield) proposed a vote of thanks to Mr. Francis for his presence and for the way in which they had been entertained. (A photograph of the competitors appeared in the *C. & D.*, June 6, p. 655). The following were the scores:—

S. Furnival ...	81—8=73	V. Wilson ...	103—18=85
C. W. Hobson ...	83—14=74	G. A. Meadows ...	103—16=87
R. L. Walker ...	96—22=74	A. E. Turner ...	101—14=87
L. Crisp ...	90—12=78	W. F. Clay ...	106—19=87
F. Terry ...	90—12=78	R. E. Twelves ...	102—14=88
S. H. Turner ...	100—22=78	F. Goodyear ...	109—19=90
R. Blackburn ...	96—16=80	S. C. Matthews ...	116—24=92
W. F. Wood ...	94—14=80	R. H. Evans ...	113—18=95
E. Preston ...	106—24=82	R. X. Farmer ...	119—20=99
S. C. Greaves ...	100—18=82	N. F. Goodwin ...	124—18=106
A. J. Swain ...	105—20=85		

THE thirteenth annual golf competition for the McMullan challenge cup was played at Castlerock on June 3. What was lacking in weather was made up in the enthusiasm of the competitors. The course was in perfect order, and play resulted as follows:—*Class A.*—H. T. McClelland (Ballyshannon), 84—8=76. *Class B.*—A. C. McBride (Armagh), 103—22=81. In the final Mr. McClelland won the cup by 3 and 2. The visitors' prize was won by Mr. S. Moore. At a meeting held during the day, Mr. S. S. Badger (president of the

Pharmaceutical Society of Northern Ireland) in the chair, a cordial vote of thanks to the Council of the Castlerock Golf Club for the use of club-house and links was proposed by Mr. F. D. McMullan, and seconded by Mr. J. Macauley, and a vote of thanks to Mr. H. McRoberts for his work as treasurer since the inception of the Golfing Association was passed unanimously. The following officers were elected:—*President*, Mr. W. McMullan; *Vice-Presidents*, Sir Thomas McMullan, Messrs. J. Beatty, W. J. Hardy, H. R. Haslett, A. W. Mann, F. R. Moore, L. Murray, G. W. T. McCann, R. F. Macartney, F. D. McMullan, C. O'Hagan, C. O'Hare and H. G. Pring; *Treasurer*, Mr. S. H. Forrest; *Secretary*, Mr. W. J. Rankin; *Committee*, Messrs. J. J. Breaky, A. Leitch, H. P. Crossin, Jas. Macauley, J. Dundee, S. McLoughlin, J. M. Poots and J. R. Guiler. The secretary was thanked for his work in carrying out the arrangements.

THE Manchester, Salford and District Pharmacists' Golfing Society held their annual match with Liverpool pharmacists on June 3, for the trophy presented by D. & W. Gibbs, Ltd. Weather conditions were unfavourable, but in the circumstances competitors did well, as is indicated by the scores. The following are the best eight out of twelve competitors in each team:—

<i>Manchester</i>				<i>Liverpool</i>			
Collins ...	...	...	71	Cole ...	...	...	75
Barnes ...	...	...	78	Price ...	...	...	77
Sturdy ...	...	...	80	Lloyd ...	...	...	82
Aves ...	...	...	80	Brigham ...	...	...	82
Stout ...	...	...	80	Alder ...	...	...	83
Fox ...	...	...	81	Glover ...	...	...	84
Stuart ...	...	...	84	Jewell ...	...	...	86
Miller ...	...	...	84	Derrick ...	...	...	89

638

658

The winners hold the trophy for twelve months and each player on the winning side received a replica. The second prize for the best net score for those members of the Manchester Society who were not in the Gibbs competition was awarded to Messrs. Maude and Gardiner. After tea the president of the Manchester Society (Mr. J. H. Franklin) said it gave him great pleasure to see all their friends from Merseyside once again. It was strange, he said, that Manchester com-

menced by winning the trophy and replicas four times, and then Liverpool won it four times in succession. Now Manchester had won it again after a lapse of four years; it had added zest to the competition. Mr. Price, replying for Liverpool, said they thanked Mr. Franklin for his remarks, and were always pleased to meet their *confrères* from Manchester. Mr. Taylor (Manchester and district representative of D. & W. Gibbs, Ltd.) presented the trophy and replicas. Mr. J. S. Breese (captain) made a short speech of thanks, and paid a tribute to the sporting manner in which the competitions were contested. Mr. J. H. Franklin said he wished Mr. Taylor to convey to Messrs. Gibbs their appreciation and thanks. Mr. Taylor briefly replied.



Photo]

[Cleworth

MANCHESTER, SALFORD AND DISTRICT GOLFING SOCIETY
Seated (left to right): Messrs. Collins, Franklin (president), Breese, Stuart, Miller

Legal Reports

Motion for Injunction.—In the Chancery Division of the High Court, London, on June 5, the case of Day, Son & Hewitt, Ltd., v. Southall Brothers and Barclay, Ltd., was mentioned to Mr. Justice Bennett on a motion by the plaintiffs for an injunction in a passing-off action. Counsel for the plaintiffs said he understood the defendants wanted an adjournment to June 9 for the purpose of answering the evidence. His lordship assented. On June 9 the case was again mentioned to Mr. Justice Bennett, and was allowed to stand over till June 12.

Food and Drugs (Adulteration) Act.—At Old Street Police Court, London, on June 5, H. F. M. Harriman, Pitfield Street, N.1, was summoned by the Shoreditch Borough Council for selling sherry which was not of the nature, substance and quality demanded by the purchaser. Mr. P. W. James, who prosecuted, said the certificate of the analyst showed that the sample contained ethyl hydroxide 14.44 per cent. by volume, whereas it should contain 16 per cent., a deficiency of 9.7 per cent. Mr. H. Glyn-Jones, barrister, defending, said his first point was that the British Pharmacopœia laid down a standard for sherry of sufficient quality to be used for mixing, and his second point that this was not sold as sherry but as British Sherry. Mr. James said with regard to the point of it being British sherry the point was clearly shown that what was asked for was sherry, and that the bottle was wrapped in paper. Assuming for a moment it was British sherry there was only one kind, and that was up to standard. The Magistrate: What standard? Mr. James: That in the analyst's certificate. Mr. Glyn-Jones said there was no medicinal use for sherry except in an amalgamation. Mr. James submitted that the analyst's certificate constituted a standard, and in the event of there being no standard it was for the Court to fix a standard. There was no such thing as British sherry. Sherry was defined clearly as the wine of Spain. His friend had referred to a label. That label was certainly no defence under Section 2. It might be a defence, if it were properly worded, under Section 4. Mr. Glyn-Jones said the point he was making was that those bottles stood with the labels outwards on shelves in the shop, and a customer using his eyes could see the label. Mr. James said the purchaser went into the shop and asked for a bottle of sherry, and was supplied with one wrapped in tissue paper. Up to that time no suggestion had been made to him that what he was paying for was other than sherry. He (Mr. James) was relying on the analyst's certificate, which set a standard for sherry. The magistrate said there was no evidence of a standard. He thought the customer was given ample notice of what he was purchasing by the label. The summons was dismissed. Mr. Glyn-Jones was granted £5 5s. costs against the Borough Council.

Dispensing Tested.—At Belfast Summons Court, on June 5, Mr. H. M. Toppin, R.M., concluded the hearing of the case in which Mr. Robert Kells, Ph.C., Albert-bridge Road, was charged with selling a compounded drug not composed of ingredients in accordance with the demand of the purchaser. The evidence of the public analyst, Mr. J. H. Totton, was that the sample analysed by him on March 21 disclosed a deficiency in potassium iodide to the extent of 39.6 per cent. The prescription was:—Potassium iodide 5 drachms, sodium salicylate 4 drachms, syrup of orange 4 drachms, water to 10 ounces. The sample contained 3.02 drachms of potassium iodide and 3.85 drachms of sodium salicylate in 10 fluid ounces. The certificate of the Government analyst in London agreed with Mr. Totton's generally. Mr. J. H. Campbell, B.L., who appeared for the defence, said he would suggest that the case was at the very worst a border-line one. The potassium iodide in the prescription would lose a certain amount of its potency, and not one of the three parties involved

there could be considered infallible. Mr. Kells, in the witness-box, said that the potassium iodide could lose its strength. It was moisture absorbing. The drug itself was only 99-per-cent. pure, according to the Pharmacopœia. There must have been in the drug an excess of alkali. The Magistrate: Is it not your duty to put in the potassium iodide 99-per-cent. pure?—Yes. The customer in this case would not be suffering, as the drug is variable. The city analyst said in reply to Mr. Craig that it was not possible for the drug to deteriorate in the prescription obtained from the defendant. In the course of time it decomposed under the action of light, but the process was very slow. The Magistrate: In this case Mr. Totton's analysis of potassium iodide was 3.02 drachms instead of 5 drachms ordered in the prescription. Dr. Blake's analysis was considerably in excess; he said there was no less than 6.44 drachms. A fine of £3, with costs, and the fee of the Government analyst (£2 2s.), was imposed.

At Belfast Police Court, on June 8, Mr. James Macauley, Ph.C., Hollywood Road, and his assistant, Mr. John Bessett, were prosecuted for having on April 28 sold a compounded drug not composed of the ingredients in accordance with the demands of the purchaser. Mr. J. Craig appeared for the Belfast Corporation, and Mr. Donald Ross represented the defendants. Evidence of purchase was given, and it was stated that the prescription was: Ammon. chlorid., gr. v.; potass. bicarb., gr. x.; syr. pruni Virg., ℥ xxx.; aquæ ad ʒss.; mitte ʒxii. The analyst's certificate showed that the sample contained ammonium chloride, 3.29 gr. in ʒss.; potassium bicarbonate, 8.20 gr. in ʒss.; it was deficient in ammonium chloride to the extent of 21.6 per cent. and in potassium bicarbonate to the extent of 18 per cent. Mr. Ross said he admitted the deficiency on behalf of Mr. Bessett, but submitted that he was entitled to a dismissal in the case of Mr. Macauley on a technical point. Dr. Barron, assistant medical officer, gave evidence in regard to the prescription, which he had written. Mr. Ross: Would I be right in saying that the value of the deficiency would be less than ʒd.?—I should say about that. Mr. Craig: Would you tell the cost of the whole bottle?—I would not like to give that away. (Laughter.) Mr. Ross said that Mr. Bessett had been in Mr. Macauley's employment for a long time. He was a reliable assistant, and failed to understand how the deficiency could have happened. The Magistrate: Which is right—fluid ounces or half fluid ounces? Mr. Totton: It should be half fluid ounces. The Magistrate: Mr. Ross's point is that he has not got proper notice. Mr. Craig said a true copy was served in Bessett's case. The magistrate fined Mr. Bessett £3, with costs, and dismissed the summons against Mr. Macauley.

At the same court, Mr. John Adams, Ph.C., Upper Newtonwards Road, and his assistant, Mr. Frederick Mackey, were prosecuted in respect of a like prescription. Inspector Reynolds said the sample contained ammonium chloride, 4.01 gr. in ʒss.; potassium bicarbonate, 9.12 gr. in ʒss.; and was deficient in ammonium chloride to the extent of 19.8 per cent. and in potassium bicarbonate to the extent of 8.8 per cent. Mr. Ross, defending, said he wanted to give an explanation of how the deficiency possibly happened. Mr. Adams gave evidence that after entering the prescription in his book he handed it to his assistant, who weighed the first two ingredients, which were checked by witness. The assistant put them into a bottle, and after shaking it for a moment or two it was discovered that the bottle was leaking. Witness took the bottle from his assistant and told him to get a mortar. The ingredients were poured into the mortar and the assistant assured him that only a drop or two had been lost. The shortage must have occurred owing to the leak in the bottle. The magistrate said Mr. Adams would be fined £3, with costs, and the case against the assistant would be dismissed.

New Companies and Company News

P.C. means Private Company and R.O. Registered Office.

EXETER DENTAL LABORATORY, LTD. (P.C.).—Capital £2,500. Objects: To acquire the business of a wholesale dealer in artificial teeth and dental appliances.

PERCY BISHOP, LTD. (P.C.).—Capital £1,500. Objects: To acquire the business of a dealer in drugs and chemicals, etc. Solicitor: E. Dennis Berry, 114-115 Broad Street, Reading.

CAVENDISH ROAD PHARMACY, LTD. (P.C.).—Capital £100. Objects: To carry on the business of chemists and druggists, opticians, etc. R.O.: 103 High Street, Collier's Wood, S.W.19.

AMERICAN DRUG SUPPLY CO., LTD. (P.C.).—Registered June 4. Capital £100. Objects: To carry on the business of wholesale and retail chemists and druggists. R.O.: 44 Bedford Row, W.C.1.

DAVID DUKES DENTAL DEPOT, LTD. (P.C.).—Capital £12,000. Objects: To carry on the business of manufacturers of and dealers in substances utilised in the manufacture of dentures and artificial teeth, etc. Solicitors: F. Lindsay, Elsworth & MacArthur, 13 Harrington Street, Liverpool.

MR. WILLIAM C. PECK, M.Sc., M.I.Chem.E., A.I.C., has been appointed a director of Burgoyne, Burbidges & Co., Ltd., East Ham, London, E.1.

TAYLORS (CASH CHEMISTS) MIDLAND, LTD.—Satisfaction to the extent of £18,050, on March 30, 1931, of charge dated January 23, 1930, and registered February 6, 1930.

THE AMALGAMATED DENTAL CO., LTD., announces a profit of £208,420 for 1930, as against £212,649 for 1929. The directors recommend a balance dividend of 4 per cent. (making 8 per cent. for the year) on the preferred ordinary and 3d. per share, free of tax (being at the rate of 6.4516 per cent. gross), on the deferred ordinary shares, the same rate as for 1929. Reserve is to receive £15,000, against £20,000.

BOOTS PURE DRUG CO., LTD.—Report for the year ended March 31 states net profit was £722,264 (against £724,869). Trading profit, after meeting income-tax, £860,870, an increase of £3,811. Repairs and renewals, £53,049 (against £56,038); depreciation, £54,911 (against £50,527); staff fund, £30,000, an increase of £5,000. After providing for dividend at the rate of 29 per cent. on the ordinary capital, it is proposed to transfer £200,000 (against £190,000) to reserve, bringing that fund to £1,300,000; balance carried forward, £220,343 (against £229,828).

BRITISH PHOTOGRAPHIC INDUSTRIES, LTD.—The accounts for 1930 show income, including a profit on the sale of an investment held by a subsidiary company of £37,626, as compared with £87,070. Of this sum £10,000 (against nil) has been placed to reserve in the accounts of one of the subsidiary companies, and £5,534, compared with £17,682, has been put to income-tax reserve, leaving a net profit of £22,088, which compares with £69,387 in 1929. The year's dividend on the preference shares has been paid, leaving a balance of £22,185, which the directors have decided to carry forward. The amount brought in was £22,644. No dividend on the ordinary is proposed, as against 10 per cent. in the preceding year, when general reserve received £20,000.

W. J. BUSH & CO., LTD.—The thirty-fourth annual general meeting was held at the Great Eastern Hotel, E.C., on June 8, Mr. James M. Bush (chairman of the company) presiding. In moving the adoption of the report, the chairman referred to the prevailing world-

wide depression, and mentioned in particular the difficulties they had had to contend with in connection with their Australian business. The depreciation in the Australian £ had complicated matters in the preparation of their accounts, but they had created a special Australian exchange contingency reserve to cover any depreciation, and this was approved by the auditors. Remittances from Australia have been under restriction, and consequently they accumulated a considerable amount of cash, which was placed on deposit in the Bank of Australasia. The immobility of this liquid asset threatened to become an inconvenience, so they made an arrangement with their bankers in London whereby they made advances against this deposit. I am, said the chairman, pleased to state we have been able to get along without asking our bankers to make us further advances, although our deposit in the Bank of Australasia has in the meantime been considerably increased. The chairman then referred to their developments in the fine chemical industry of this country and the assistance afforded them by the key industry duty. In some cases they had had sufficient time to increase their efficiency to a point which is equal to the best Continental practice. The field is so vast, however, that we can only regard this industry as not yet fully developed, and much has to be done before this country reaches this position. In our opinion, the discontinuance of the Key Industries Section of the Safeguarding of Industries Act would be a great discouragement to English chemical manufacturers, would inevitably involve big capital losses, increase unemployment, and jeopardise national safety. Our subsidiary companies in America and Canada made satisfactory profits under the prevailing conditions, and both companies possess substantial surpluses. The report and accounts were unanimously adopted, and the dividend recommended (*C. & D.*, June 6, p. 652) was declared.

Voluntary Liquidation

Biozone, Ltd., manufacturers of chemical products, Creechurch Lane, London, E.C.—The statutory meeting of creditors was held on June 8 at the Incorporated Accountants' Hall, London, W.C., when it was stated that the debenture holder had appointed Mr. A. E. Mullis, 17 Basinghall Street, London, E.C., as receiver. Prior to the meeting of creditors the shareholders had passed a resolution nominating Mr. Mullis as liquidator of the company, and that appointment was duly confirmed by the creditors at the statutory meeting. No statement of affairs was submitted, but Mr. Mullis stated that the liabilities amounted to £2,940, which included a debenture claim for £500, and the assets consisted of good book debts £36, and stock of raw salt, shown in the books at £300, but the receiver was unable to place any value on that asset.

Business Changes

TIMOTHY WHITES (1928), LTD., have opened a branch at 5 Market Place, Cirencester.

MR. C. R. BALDWIN, chemist and druggist, has opened a pharmacy at 67 High Street, Witham.

SAVORY & MOORE, LTD., chemists, have acquired the business of Russell & Co., chemists, 7 High Street, Windsor.

MR. F. H. EMSLIE, chemist and druggist, has taken over the business of Mr. C. W. Martin, chemist and druggist, 35 Crouch Street, Colchester, as a branch.

THE following have been elected directors of Wyleys, Ltd., manufacturing chemists, Coventry:—Dr. J. Orton, Allesley Hall; Mr. J. T. Fleet, chemist and druggist, Rugby; Mr. F. W. Harris (secretary); and Mr. J. W. Bennett (works manager).

Therapeutic Substances Regulations

THE draft of the Regulations proposed to be made by the Joint Committee under Section 4 (1) of the Therapeutic Substances Act, 1925 (*C. & D.*, June 6, p. 649) has been issued (price 11d.) by the Stationery Office. The fact that at least one line has apparently been lost in setting up the type of page 18 indicates a certain amount of haste in preparation. A substantial part of the Regulations follows closely, except for a few verbal changes, the text of the first Regulations (*C. & D.*, 1927, I, 499-502).

Taking the principal changes in order of occurrence, the first occurs near the end of Part II, where a clause is inserted providing that a licensee may be directed, if any batch of a substance is not approved by the licensing authority, to withdraw the remainder of that batch from sale and to call in any issues already made. In Part III the manufacturers are allowed to have containers made of substances other than glass for surgical ligatures. In Part IV, the period during which the licensee is to examine batches for sterility is reduced from seven days to five days. (We omit minor changes in requirements as to labelling and so forth.)

Turning to the Schedules, the following is inserted in the Second Schedule, Part I, after "B."

(C)

PROVISIONS APPLICABLE TO THE PRODUCTION OF VACCINES CONTAINING LIVING ORGANISMS, VIRUSES, OR OTHER POTENTIALLY INFECTIVE AGENTS, OTHER THAN VACCINE LYMPH (VACCINIA)

(1) Every therapeutic substance other than Vaccine Lymph (*Vaccinia*) containing, or alleged to contain bacteria, or virus or other potentially infective agent in the living condition shall be tested in such manner as the licensing authority shall approve in each particular case for the purpose of determining—

(a) that the substance contains in living condition the bacteria, virus, or other potentially infective agent, which it is alleged to contain;

(b) that its administration is free from danger;

(c) that it is free from living organisms other than those which it is alleged to contain.

(2) The proper name of such a substance shall be that which the licensing authority, in each particular case, shall approve in writing.

In Part IV A the title "anti-meningococcus serum" is dropped and the following statement is made:—

PROPER NAME

The proper name of any anti-bacterial serum to which Division A of this Part of this Schedule applies shall be the recognised scientific name of the organism or some generally recognised abbreviation thereof, preceded by the prefix "anti," and followed by the word "serum," as, for example, "anti-meningococcus serum." The proper name of any antitoxin serum may be formed from the word "antitoxin," preceded by the name of the organism from which the toxin was prepared, and followed, if desired, by a term indicating the source or the strain of that organism, for example, "streptococcus antitoxin (*Scarlatina*)."

After Section D of Part IV the following new section is inserted:—

(E)

PROVISIONS APPLICABLE TO GAS-GANGRENE ANTITOXIN (PERFRINGENS)

Proper Name

1.—Gas-Gangrene Antitoxin (*perfringens*) is the serum, or the antitoxic globulins, separated from the blood of animals which have been immunised against the specific toxin prepared by the growth of *Bacillus perfringens* (*B. welchii*) in a fluid medium. The proper name of

the substance is "Gas-Gangrene Antitoxin (*perfringens*)."

Standard Preparation

2.—The standard preparation is a quantity of dried gas-gangrene antitoxin (*perfringens*) kept in the National Institute for Medical Research, Hampstead, London.

Quality

3.—(1) Gas-gangrene antitoxin shall be issued for therapeutic use in the form of either—

(a) the serum separated from the blood or plasma of the immunised animals; or

(b) the solution of the globulins containing the specific immune substances; or

(c) a dry powder prepared from (i) the natural serum or (ii) the globulins containing the specific immune substances.

(2) If issued in fluid form the liquid shall, at the time of issue, be clear or show, at most, a very slight opalescence or precipitate. Preparations of the natural serum (the liquid product of decantation of the coagulated blood without any addition, other than antiseptic, or subtraction) shall not contain more than 10 per cent. of solid matter. A solution of the separated antitoxic globulins shall not contain more than 20 per cent. of total solid matter.

Strength

4.—(1) The potency in units of gas-gangrene antitoxin (*perfringens*) shall be determined, in accordance with a method approved by the licensing authority, by the injection into animals of a mixture of the antitoxin under test with a gas-gangrene (*perfringens*) toxin which has been standardised in relation to the standard preparation of gas-gangrene antitoxin (*perfringens*).

(2) Each container of gas-gangrene antitoxin (*perfringens*) shall contain a sufficient number of units in excess of the minimum total number of units indicated on the label to ensure that the said minimum total number of units will still be present in the container at the date appearing on the label pursuant to Article 10 (3) (d) of these Regulations as the date up to which the preparation may be expected to retain its potency.

Unit of Standardisation

5.—The unit of gas-gangrene antitoxin (*perfringens*) for the purposes of these Regulations is the specific neutralising activity for gas-gangrene (*perfringens*) toxin contained in such an amount of the standard preparation as the Medical Research Council may from time to time indicate.

Labelling

6.—(1) The label on the container shall indicate—

(a) the minimum total number of units in the container; and

(b) either (i) the potency of the preparation expressed as the minimum number of units of antitoxin per c.c. in the case of liquid products or as the minimum number of units of antitoxin per gramme in the case of dry products; or

(ii) the total number of c.c. in the container.

(2) The label on the container or the label or wrapper on the package shall indicate the nature of the particular product, that is to say, whether natural serum, a solution of antitoxic globulins, dried natural serum or dried antitoxic globulins.

Mixed Antitoxins

7.—A mixed antitoxin, containing antitoxins against other toxins than that of the *Bacillus perfringens*, shall, with respect to its content in units of gas-gangrene antitoxin (*perfringens*) conform with paragraphs 4, 5 and 6 of this Part of this Schedule.

(To be concluded.)

British Pharmaceutical Conference

WE have received the following details of the arrangements that have been made for the Manchester meeting of the British Pharmaceutical Conference on July 20-24 inclusive:—

Monday, July 20

- 8 p.m. Civic reception by the Lord Mayor and Corporation at the Town Hall. The Lord Mayor and Lady Mayoress will receive Conference visitors, 8.0 to 8.30 p.m.
- 8.30 to 10.30 p.m. Dancing.

Tuesday, July 21

- 10 a.m. Opening session in the Albert Hall, Peter Street. Civic welcome by the Lord Mayor. Address by the chairman, Mr. J. H. Franklin.
- 11.15 a.m. Ladies may visit Rylands Library, or be free to spend the morning as they please. Science meeting in the Albert Hall.
- 1 p.m. Lunch in the Banqueting Hall, Midland Hotel.
- 2.15 p.m. Delegates' meeting, Small Ball Room, Midland Hotel.
- 2.15 p.m. Science meeting in the Midland Hotel.
- 2.30 p.m. Ladies' excursion:
1. Visit to Chetham's Hospital and Cathedral. Afternoon tea at Messrs. Kendal Milne & Co., Ltd.; or
 2. Visit by motor-coach to Messrs. McVitie & Price's Biscuit Works, Levenshulme (100 only). Conference visitors will be entertained to afternoon tea by the firm; or
 3. Visit to Messrs. Cussons, Sons & Co., soap and perfumery manufacturers, Kersal Vale. Accommodation for 150. Tea will be provided. Ladies must inform the secretary of the Ladies' Committee, Mrs. K. I. Miller, 24 Nursery Avenue, Hale, Cheshire, on or before Saturday, July 18, if possible, which of the three functions they desire to attend.

- 7 p.m. Banquet. Banqueting Hall, Midland Hotel.

Wednesday, July 22

- 9.30 a.m. Ladies' motor tour in Cheshire via Wilmslow and Alderley to Gawsorth Church and Vicarage, back via Prestbury.
- 10 a.m. Science meeting in the Midland Hotel.
- 10 a.m. Delegates' meeting in the Small Ball Room, Midland Hotel.
- 1 p.m. Lunch in the Banqueting Hall, Midland Hotel.
- 2 p.m. Science meeting in the Midland Hotel.
- 3.30 p.m. Garden party at Wythenshawe Hall by the courtesy of the Manchester Corporation. Motor coaches will leave the Midland Hotel (Mosley Street) at 3 p.m. The official photograph will be taken.
- 8 p.m. Ball in the Banqueting Hall, Midland Hotel, to 1 a.m. Interval for supper at 9.30 p.m.

Thursday, July 23

- 10 a.m. Closing session in the Albert Hall.
- 11.45 a.m. Lunch in the Banqueting Hall, Midland Hotel.
- 12.45 p.m. Motor excursion via Whaley Bridge, Chapel-en-le-Frith, Stony Middleton Dale, Chatsworth, Haddon Hall, Bakewell to Buxton. Tea will be served at the Spa Gardens.
- Return at 6 p.m. from Buxton via Goyt Valley.
- 8.30 p.m. Cabaret and dance in the Banqueting Hall, Midland Hotel. Interval for supper at 10 p.m.

Friday, July 24

- Sports day. Golf, bowls, and tennis at Heaton Park.
- 9.30 a.m. Players will be taken to Heaton Park by motor bus from the Midland Hotel. Lunch and tea will be served at the Hall at Heaton Park. Competitors' tickets are issued at 10s. 6d. each. Non-playing members are cordially invited to be present, for whom the inclusive charge for lunch and tea will be 5s. The Park, Hall and Gardens are well worth a visit. The Manchester Police Band will play during the afternoon.
- 8.30 p.m. Smoking concert in the Banqueting Hall, Midland Hotel. Refreshments will be served at 10 p.m.

HOTELS AND TICKETS

Midland (Central 1904), bed and breakfast from 14s. 6d. (100 persons); Queen's (Central 5612), bed and breakfast from 14s. 6d. (30 double, 10 single); Grand (Central 2493), bed and breakfast from 12s. (50 double, 20 single); Victoria (City 5388), bed and breakfast from 10s. 6d. (120 persons); Grosvenor (City 6488), bed and breakfast from 12s. 6d. (60 persons); Deansgate (City 5312), bed and breakfast, 9s. and 10s. 6d. (16 double, 18 single); Exchange (Blackfriars 4930), from 10s. (15 persons).

Conference visitors should make application direct to the hotel chosen, stating that they are of the Conference party. In case of difficulty, apply to Mr. T. Miller, "Lauriston," Nursery Avenue, Hale, Cheshire. Each book of tickets (excluding Sports Day) costs £2 12s. 6d.; those applied for before July 1 will be charged £2 10s. each. Visitors may travel by rail at the usual reduced rates. Applications for tickets should be accompanied by remittance payable to Mr. E. H. Kerfoot, treasurer, and should be sent to the secretary, Mr. R. G. Edwards, 25 Amherst Road, Withington, Manchester. Single day tickets, if accommodation is available, £1 1s. each. A ladies' dressing room will be provided at the Midland Hotel.

Association Meetings

Cardiff.—A meeting of the Cardiff Pharmacists' Association and Branch of the Pharmaceutical Society was held on June 4, Mr. H. A. Hobbs (president) in the chair. The president gave a *résumé* of the conversation which he, together with Messrs. R. Hopkins and A. J. Harris, had had with the three local members of Parliament on the Pharmacy and Poisons Bill. Each member agreed that the clauses in the Bill bearing particularly on dispensing, which, they thought, should be reserved for chemists, were important, but intimated that as a whole they would be obliged to vote on party lines. It was reported that Allen & Hanburys, Ltd., had offered a silver challenge cup for golf competitions open to chemists of South Wales.

London (S.E.).—The annual meeting of the South-East London Branch of the Photographic Dealers' Association was held on June 3, when the following officers were elected for the ensuing session:—*Chairman*, Mr. J. Milner; *Vice-Chairman*, Mr. C. Happold; *Treasurer*, Mr. Walter Large; *Secretary*, Mr. E. Oswald Wells.

London (W.).—The following officers have been elected to the Western Pharmacists' Association and West London Branch of the Pharmaceutical Society for the ensuing year:—*President*, Mr. G. W. Evans; *Vice-President*, Mr. P. S. Windwood; *Treasurer*, Mr. W. E. D. Shirtliff; *Joint Secretaries*, Messrs. David T. Jones and R. E. Baldry; *Social Secretary*, Mr. Gwilym Thomas.



St. ASAPH



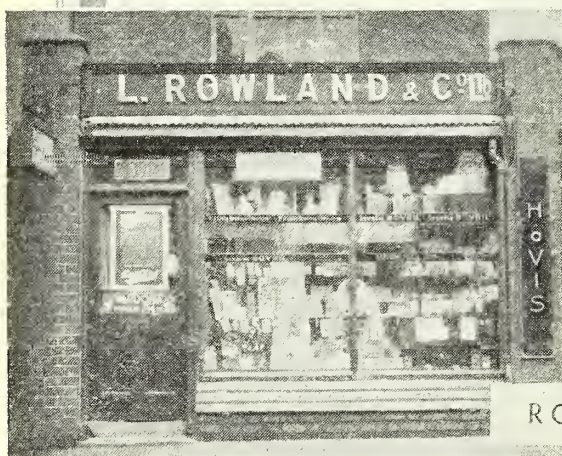
RUABON



FLINT



LLOY



ROSSETT



WREXHAM

Trade Notes

Ozo foot-bath tablets are manufactured by The Standard Tablet Co., Ltd., Hove, who will send a sample to chemists on application.

PARFUMERIE DE FLEURY have appointed Mr. L. N. Tarbolton as their representative in the Home counties, Eastern counties and in the Midlands.



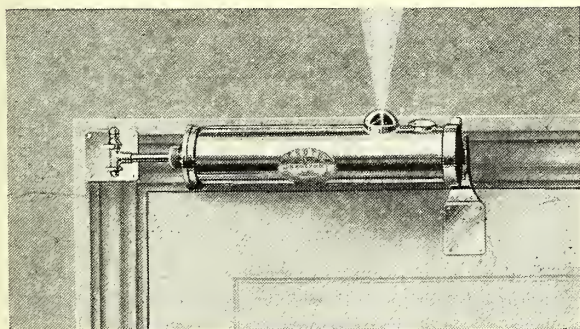
STANIFORM LOTION.—Staniform, Ltd., Carnwath Road, Fulham, London, S.W.6, remind chemists that Staniform lotion is a useful remedy for the relief of the irritation caused by sunburn and also to counteract the poison caused by insect stings. For the convenience of the user the lotion is packed in drop bottles, and in order to bring it to the notice of the public the attractive coloured poster (20 in. by 30 in.) shown in the photograph is available for chemists who desire it.

STAFFORD ALLEN & SONS, LTD., Cowper Street, London, E.C.2, are offering a biologically standardised liquid extract of pyrethrum suitable for the manufacture of fly sprays.

NEW PACK.—George Eade, Ltd., Goswell Road, London, E.C., are now packing their antibilious pills in an aluminium tube instead of a boxwood box.

HALEX TOOTH BRUSHES.—British Xylonite Co., Ltd., Hale End, London, E.4, are offering a bonus on certain orders for Halex tooth brushes if placed before June 30.

A NOVEL SPRAYING APPARATUS.—James H. Westerman, 8 Park Lane, Leeds, has devised an ingenious method of disinfecting a room. As will be appreciated from the illustration, the instrument, which is an adaptation of a syringe, is attached to the door so that on opening it a small quantity of the disinfectant is automatically diffused. The chamber containing the solution holds sufficient liquid to enable the sprayer to function for a considerable period without being refilled, but, in



spite of this, it does not make the door difficult to open. The drip-catcher returns any excess solution to the container. The apparatus is made in brass, nickel-plated and polished finish. When ordering it is necessary to state whether the door is hung right or left. The spray solutions—pine and floral—are supplied highly concentrated for dilution as required.

CHEMISTS carrying a complete range of the toilet products of Ponds' Extract Co., 103 St. John Street, London, E.C.1, will be sent on application one of the showcards here illustrated. This measures 5½ in. by 2½ in. It is made of a black ebonite-like material with



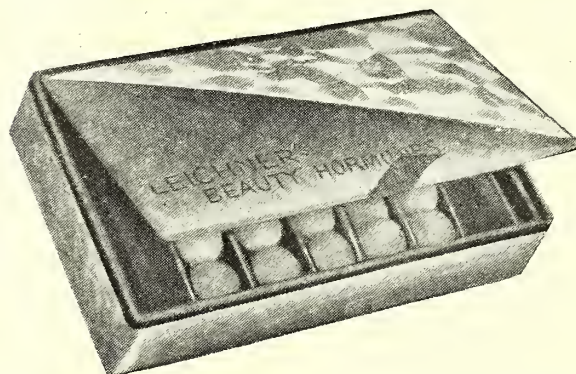
the letters inlaid and the name studded with brilliants. The result is highly effective by daylight and artificial illumination. The firm's products are to be advertised on the front page of the "Daily Mail" on June 25.

DEVILBISS SPRAYS.—Aerograph Co., Ltd., 43 Holborn Viaduct, London, E.C.1, who are the distributors of De Vilbiss products in this country, elsewhere in this issue draw attention to some important points in connection with spray No. 15.

VINOLIA, LTD., Bebington, Cheshire, have issued a new edition of their illustrated price list. There is also a folder giving particulars of the 1931 bonus offers available. Chemists who have not received a copy of these publications will be sent them on request.

SHOP FITTING.—Evans Sons Lescher & Webb, Ltd., 56 Hanover Street, Liverpool, have sent us a copy of a brochure which they have just published in connection with their shop-fitting department. A number of pharmacies which they have planned and equipped are illustrated, while descriptive notes call attention to the principal features of the design. Chemists considering the opening of new premises or the remodelling of old ones will find it worth while to write for a copy of this publication.

A NEW BEAUTY PRODUCT of an unusual nature has been introduced by L. Leichner (London), Ltd., 11 Pollen Street, Regent Street, London, W.1. Leichner's Beauty Hormones are supplied in tablet



form (packed in boxes of 50's and 25's), one being taken in water twice daily. Further details will be found in the coloured inset elsewhere in this issue. It should be noted that the company's telephone number is: Mayfair 4031, and not as printed.

Births

Notices for insertion in this column must be properly authenticated.

BARNETSON.—On June 7, Madge (*née* Hoskins), wife of C. H. F. Barnetson, chemist and druggist, The Pharmacy, Swaffham, of a son.

CHARLESWORTH.—On June 10, the wife of A. Charlesworth, chemist and druggist, Stockton Heath, Warrington, of a son.

TEUNON.—At 29 Western Road, Littlehampton, on June 9, Lillian Mabel, the wife of W. Teunon, M.P.S., of a son.

WADE.—At Norwich, on May 25, Iris, the wife of Herbert L. Wade, M.P.S., Ilford, of a daughter.

Marriages

ASHWORTH—ASHWORTH.—At Barnes Street Baptist Church, Accrington, on May 28, Richard A. Ashworth, chemist and druggist, to Dorothy Ashworth.

CLARKE—CRAMPTON.—At Dulwich, London, S.E., on May 21, Alexander Clarke, chemist and druggist, West Ham Lane, London, E., to Alice Crampton.

EVANS—EASON.—At St. Dyfrig's Church, Cardiff, on June 3, Arthur Alexander Evans, son of Mr. and Mrs. W. K. Evans, to Edith Melville Richardson Eason, M.P.S., eldest daughter of Mr. S. B. Eason, M.P.S., and Mrs. Eason, both of Cardiff.

WILLIAMS—ROGERS.—At Corpus Christi Church, Ellenborough Park, Weston-super-Mare, on May 26, John Joseph Williams, chemist and druggist, to Violet Rogers.

Silver Wedding

STRANACK—POYNTON.—At St. Thomas' Church, Durban, on June 6, 1906, by Rev. F. S. K. Gregson, assisted by Canon O'Connor Fenton, Morris William Stranack, elder son of Mr. W. Stranack, Durban, South Africa, to Lucy Magdalene, elder daughter of Mr. W. R. Poynton, J.P., "Essendine," Musgrave Road, Durban. Present address: P.O. Box 812, Shanghai, China.

Deaths

DAWKES.—At 17 Horn Lane, Acton, London, W., on June 1, suddenly, Mr. Robert Henry Dawkes (Robert Dawkes, Ltd., chemists), aged fifty-four.

EVANS.—At Lewisham Hospital, London, S.E., on May 26, Mr. Robert Nanney Evans, chemist and druggist, aged seventy-one.

LEES.—At West Bromwich General Hospital, on May 27, Mr. David Samuel Caundell Lees, chemist and druggist, aged twenty-six.

McHUGH.—At the Medical Hall, Kildare, on June 5, Mr. Thomas Bernard McHugh, L.P.S.I. Mr. McHugh passed the Licence examination in 1908.

MAGGS.—At his residence, 30 Baldslow Road, Hastings, on June 8, Mr. Frederic William Maggs, retired chemist and druggist, aged seventy-three. Mr. Maggs was a son of the late Mr. F. B. Maggs, chemist and druggist, Marina, St. Leonards-on-Sea, and he himself carried on the pharmacy until his retirement. He was associated with the Buchanan Hospital and other institutions, and for a long period was a warden of Christ Church, Blacklands, where he was also organist.

MILLER.—At Ulverston, on May 4, Mr. Arthur Miller, chemist and druggist. Mr. Miller qualified in 1897.

Personalities

MR. M. H. STYLES, Ph.C., Doncaster, celebrated his eighty-fifth birthday on May 22.

MR. W. MASSEY, chemist and druggist, Guildford, has been elected president of the local chamber of trade.

MR. THOMAS BELL, retired chemist and druggist, Litterlrigg, Ambleside, and **MRS. BELL** recently celebrated their golden wedding.

MR. R. CAMPBELL FEATHER, B.Sc. (a director of Meggeson & Co., Ltd., London, S.E.16), had the degree of M.A. conferred on him by the University of Oxford on June 6.

MR. WILLIAM HOGG, M.R.C.S., L.R.C.P., son of Mr. Geo. T. Hogg, chemist and druggist, Gateshead, has gained the M.B., B.S. of London University. He was a student at St. Bartholomew's Hospital Medical School.

CERTIFICATES OF NATURALISATION have been granted to M. Bannounah, medical practitioner, 67 Engleheart Road, Catford, London; A. Frajman (known as Adolph Freiman), chemist, 25 Avenue Road, Newport, Salop; Y. Gimpelsohn (known as Yetta Gimpelson), doctor of medicine, 39 Cornwall Road, Paddington, London.

MR. T. S. BRECHIN, F.C.S., chemist and druggist, manager of Miller & Co., Ltd., Kandy, Ceylon, is in the United Kingdom on six months' leave. He spent a holiday in Italy *en route*, visiting Naples, Rome, Milan, Venice and the Italian lakes. Mr. Brechin's address in Edinburgh is 9 Grosvenor Crescent.

Wills

MR. LEONARD MANN TOMPKIN, of "Cotswold," Cragmoor Road, Burton Joyce, Notts, chemist and druggist, who died on December 30 last, aged forty-two, left £1,829 13s. 6d., with net personalty nil.

MR. ALBERT VICTOR KIRBY, 31 Goldsmith Avenue, Acton, London, W.3, pharmacist, who died on December 31 last, aged forty-three, left estate of the gross value of £1,150 2s. 3d., with net personalty £712 19s. 4d.

MR. JOHN WILLIE LOFTHOUSE, of 187 Shirebrook Road, Heeley, Sheffield, chemist and druggist, who died on February 8 last, aged fifty-four, left estate of the gross value of £4,624 6s. 6d., with net personalty £3,960 16s.

MR. SAMUEL WRIGHT LEE, of 28 Croxteth Road, Liverpool, wholesale druggist, a director of J. H. & S. Johnson, Ltd., who died on February 22 last, left estate of the gross value of £21,135 15s., with net personalty £19,179 8s. 3d.

MR. ROBERT ROWLES PRATT, of 94 Canterbury Road, Kilburn, N.W., carrying on business as a chemist in Princess Road, Market Place, Kilburn, and Canterbury Road, who died on January 8 last, aged fifty-eight, left £12,942 16s. 7d., with net personalty £8,882 16s. 7d.

Information Department

INFORMATION WANTED

Postal or telephone information with respect to makers or first-hand suppliers of the undermentioned articles will be appreciated.

L/295. Ampoules Castasol	M/106. Neville's breakfast food
N/86. Bualax	E/46. Strombol lead lotion
M/106. Cuproferrol	M/105. Wright's vaccines
S/86. Letchford's milk of roses	C/295. W.W. safety razor blades
W/26. Maltona (for poultry feeding)	E/105. Zog cleaner and polisher
M/26. Neuropine	

Observations and Reflections

By Xrayser III

Furious Thinking

is caused by careful perusal of your editorial article on the administration of the Dangerous Drugs Acts (*C. & D.*, June 6, p. 662), in which you show more clearly than ever how the concessions made to the Pharmaceutical Society in the Pharmacy and Poisons Bill, in the shape of facilities for effecting domestic reforms, are to be dearly purchased at the cost of delivering the retail chemist into bureaucratic bondage from which he may never escape so long as he remains in business. He is to be made a scape-goat because the cumbrous arrangements designed to solve the "dope" problem have failed to stop the illicit traffic in certain drugs, and an imposing list of convictions for trivial offences punished by savage penalties may, as you suggest, prove useful if accepted by the public as a satisfactory show of results. Great things are undoubtedly being accomplished in the way of disciplining chemists and druggists severely for inadvertent omission to comply in every minute detail with Regulations which insist upon certain formalities when so-called "dangerous" drugs are handled; but the regular users of "dope" continue to obtain supplies and "dope" profiteers are probably making as good a thing out of the business as ever.

Rejection

of the Pharmacy and Poisons Bill seems to be the only thing we ought to concern ourselves about at the present time. Reform of the Pharmaceutical Society, as you wisely suggest, would be better dealt with apart from the question of the sale of poisons, and offers of facilities for effecting our domestic rearrangement should not be accepted as consideration for further loss of our liberties. It still remains to be proved that the proposed further restrictions upon the conduct of our legitimate business are required in the public interest, and I am surprised that the Pharmaceutical Council appears to have put up so feeble a fight on behalf of our ancient rights and privileges. Rumour has it that part of the Council is not now in earnest in its much-talked-of opposition to the Bill, and that there will be great disappointment at No. 17 if anything should prevent the passing of the measure, whether further amended or not. Whether the measure of truth in these rumours be great or little, there seems to be no getting over the fact that we are probably heading for disaster by not opposing the Bill outright for all we are worth, instead of striving to secure amendment. Any chemist and druggist who may be in a position to influence a member of Parliament will probably help himself and his fellows most by urging the M.P. to oppose the Bill to the utmost, and by furnishing cogent reasons, such as are supplied by your editorial article, why the public interest will perhaps be best served by the total rejection of the measure.

An Apology

is due from me to Mr. F. G. Wells for mis-stating fact by remarking that he was originally co-opted as a member of the Pharmaceutical Council, and I hasten to tender it. A wrong impression in my mind should have been removed by reference to the records, and I must now cry "Peccavi" and hope to be excused. I commend Mr. Wells for putting up so good a fight, and am wondering which of his erstwhile colleagues it will be his fortune to displace. Meanwhile, I should advise him to get busy helping to secure the total rejection of the Pharmacy and Poisons Bill. Success in that direction will go far to ensure his recovery of a seat on the Council.

"The Evolution

of the modern hospital affords one of the most marvellous evidences of the advance of scientific and humanitarian principles which the world has ever seen" is a statement made by that great leader of the hospital movement, Sir Henry Burdett. At the moment the voluntary as well as municipal hospitals are very much in the public eye—the first because of the serious question of the provision of funds, and both kinds because of the time at which the patients should be awakened in the morning. At first sight it may appear that there is little, if any, relationship between these two matters, but a little consideration reveals a rather close connection. There is afoot a complaint concerning what is regarded as the too early awakening of the patients—and to arouse sick people at five o'clock does seem to be, to those who arise usually at 7 or 7.30 a.m., very early; but if arrangements are duly made to compensate for it in the way of insisting on an early retirement, there need be no, or little, hardship. There is good reason for the work of the hospital or infirmary to begin early, as the medical and surgical services, which are of the highest class, are compelled to be rendered before noon by men and women whose work is almost entirely of a voluntary character. If these services had to be available later in the day they would have to be adequately remunerated. Whence would come the money to meet such a great obligation?

It is Easy

to overlook the fact that our hospital system is of quite a recent origin. Even in pre-Christian days there were clinics of a kind in Egypt and Greece, and during the Middle Ages there were institutions for the relief of the sick. But provision for the sick poor on a large scale was not thought of before the eighteenth century. Even London at the beginning of that century was dependent mainly on St. Bartholomew's and St. Thomas's hospitals. There was, however, a great quickening of humanitarian feeling before the beginning of the nineteenth century, and much progress took place in the provision and managing of hospitals and infirmaries. A number of provincial ones were established in addition to the dispensaries founded in the metropolis. I have been looking up the rules of a large provincial infirmary. The regulations were printed in 1791, and were used for the guidance of many other hospitals in the country. One regulation was for the matron to see that the wards were scrubbed with soap and warm water every Friday morning before eight o'clock in summer and nine o'clock in winter, and that the nurses "mop their respective wards, once in every week, on an intermediate day, before the same hours, and keep them constantly clean by sweeping, and that the use of sand be totally abolished." This last instruction indicates that hospital fever was, in the future, to be fought by means of scoured floors and by the banishment of the sand which had hitherto been employed to obscure the filth which had been allowed to accumulate. As a matter of general routine the nurses cleaned their wards by seven o'clock in summer and eight o'clock in the winter. The bed-linen was not renewed very frequently in those days, the sheets being changed every fortnight. There are many other regulations which show that by that time hospital management had reached a fairly high standard of efficiency. It was an instruction that medicines which could not be made in the "shop" should be purchased from the Apothecaries' Hall, London. It is true that of all the evidences of humanitarian progress there is none greater, perhaps none so great, as our wonderful system of hospitals and infirmaries.



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Editorial Articles

Control of Drugs in India

THE appointment of a Committee on Drugs in India has stimulated discussion in the Indian Press, and the demand for a legislative control of drugs is becoming insistent. A large number of new preparations are being put on the Indian market increasingly every year, especially by native Indian firms, of which the therapeutic value is not known. Most of them are considered to be useless, if not harmful. No regulations exist in India either to prevent the import or manufacture in the country of inferior medicines. Determination of the real quality or genuineness of the drugs on the market is outside the scope of the general medical practitioner, and he looks to the State to protect him. The factor of climate is also of great importance in India. The high atmospheric temperature combined with the great amount of humidity produces deterioration of drugs during storage. Examination by chemical and biological assay of many preparations of potent drugs on the market, both those manufactured by the drug houses of India and those imported into India, has been carried out in the Calcutta School of Tropical Medicine, and results have confirmed the above conclusion. Attempts have also been made by some Indian firms to prepare some of the biological products, such as gland extracts, vaccines and serums, and some of these have been put on the market. Besides these, a number of potent

organic compounds of antimony have been introduced by some manufacturing firms in Calcutta, and are being given intravenously by practitioners. No control whatever is exercised by the State over these potent compounds, with a view to see whether the different batches of the manufactured products are chemically the same and that their toxicity has not varied. With regard to imported drugs which at present form the largest proportion of drugs used in India, though they are mostly manufactured by firms of repute, these necessarily suffer from climatic conditions. Some time ago over a hundred preparations of digitalis made by well-known firms were tested, and it was found that most of these deteriorated to the extent of 30 to 40 per cent. within a few months of their arrival in India. Some drugs such as thyroid extract, adrenalin, pituitrin, etc., are similarly affected. Several batches of old tablets of pituitrin and adrenalin and some containing "patent" alkaloids, which were tested, had appreciably deteriorated in quality. Control of these products, therefore, on the market is of prime importance. In India, public health being a provincial subject, the question of adulteration of food and drugs has been left to provincial governments and local bodies. Some local Acts have been passed, but they are virtually dead letters as far as the control of drugs is concerned. It thus comes about that in India, for all practical purposes, there are no safeguards against manufacturing, advertising and selling to the public therapeutic products of any kind.

Mercury

THE recent reduction made by "Mercurio Europeo" of £5 per bottle, bringing the current shipment price to £16 15s. per bottle, f.o.b. Spain or Italy, was not unexpected. For some time the former quotation of £21 15s. per bottle had been purely nominal. The adjustment in question was more than due if the serious competition from Mexico was to be resisted. There is little doubt that the stocks of "Mercurio Europeo" must have increased very considerably during the past year, and the reduction in shipment prices, a particularly drastic one, was essential in order to stimulate demand. At current prices there would appear to be a fair margin of profit for the Spanish-Italian interests, and, in order to regain and maintain their former position, they could no doubt make a further reduction should it become necessary. It seems likely, however, that at the adjusted figure they will largely command the market, and the next move, if it takes place at all in the near future, will be with the Mexican interests, which would no doubt be met by the Continental group, who hold the stronger position on account of more economic production.

Consumers' Council Bill

LIKE the ploughman of a well-known elegy, the Consumers' Council Bill plods its weary way through Standing Committee C of the House of Commons, a third meeting of which is being held as we go to press. Looking through the forty pages or so embodying the proceedings of the Standing Committee as far as they have gone, we notice that an appreciable part of the time has been occupied with points of order and divisions, leaving considerably less than the four hours of the two sittings for actual discussion. Among the few points of general importance, we may quote the following remarks by Captain Austin Hudson:—

Later on, it is my intention to deal with some of these cases [of an increase being caused in the cost of living], because those which were quoted, particularly of certain articles in chemists' shops, and things of that kind, were

fallacious. I took the trouble to inquire into the matter, and found that they were completely untrue. . . . Time and again hon. Members say that things are too expensive, but they do not seem to realise that there are certain people, particularly chemists and people of that kind, whose skill has to be paid for in some way, and that that is one of the reasons why the prices of things which they sell are higher than they might be if their skill were not taken into account.

Small as the turnover in chemists' goods may be in relation to that of some commodities, chemists are nevertheless in danger of being made a target for ill-informed criticism, and it is reassuring to know that their side of the case is being presented.

Westminster Wisdom

Notes on Parliamentary Matters

NATIONAL HEALTH INSURANCE

Colonel Howard-Bury asked the Minister of Health, on June 9, whether the Government have now come to a decision upon the proposal to introduce legislation to repeal the section which prohibits insurance chemists from giving an insured person an inducement by gift or otherwise in consideration of his presenting an order for drugs or appliances on a National Health Insurance form.

The Parliamentary Secretary to the Ministry of Health (Miss Lawrence): Legislation is not necessary to deal with this point, but an appeal has been made against the recent decision of the courts in the matter, and until it has been heard no statement can properly be made.

Varying N.H.I. Prescriptions

IN dispensing Insurance prescriptions it is advisable for chemists to remember that the matter does not end with paying the chemists' bills. At the pricing bureaux, after the amounts due to the chemist-contractors have been ascertained, a considerable amount of work is done on the prescriptions by rearranging them into doctor order and calculating the cost of each practitioner's prescribing. When this fact is borne in mind, it will be seen that it may conceivably happen that a doctor may be blamed for the excessive cost of his prescriptions when, in fact, original orders issued by him have been varied by the chemist. For instance, a dozen tablets may be ordered which the chemist does not keep in stock. Is the chemist justified in dispensing powders? No, not without the doctor's sanction, because the dispensing fee for twelve tablets is fivepence, but the fee for twelve powders is sevenpence. Even when no difference in cost is involved by the modification of the prescription (e.g., the fee for six tablets and six powders is the same), it is advisable for the doctor to be notified. (This does not, of course, apply to any modifications in formula which are necessary for pharmaceutical reasons—e.g., the addition of a pill-excipient, for which the chemist should receive an extra allowance.) In any case, therefore, where a material alteration of the order is contemplated by an Insurance chemist, he should communicate with the prescriber and ask his sanction for the alteration, marking the prescription or getting the doctor to do so.—OBSERVER (17/7).

"LETTER WRITING."—In "Letter Writing" (Pitman & Sons, Ltd., Parker Street, London, W.C.2, 1s.) G. K. Bucknell has not entirely surmounted the difficulties inherent in attempting to compress into so small a book the types of instruction in the writing of business letters which fill much larger manuals, nor has he been quite faithful to the conception of commercial English laid down in his first chapter.

Pharmacopœia Commission

Report of the Pharmaceutical Chemistry Subcommittee

The Pharmacopœia Commission have received from the Pharmaceutical Chemistry Subcommittee a report on certain sections of the work done by that Subcommittee. It is the desire of the Commission and of the Pharmaceutical Chemistry Subcommittee that the report should receive the widest possible circulation in order to secure criticisms of the statements made and suggestions for improvement. The Commission invite criticisms and suggestions from medical practitioners, pharmacists, and others interested. Careful consideration will be given to all opinions evoked by this Report, original copies of which may be obtained from the Pharmacopœia Commission, General Medical Council Office, 44 Hallam Street, London, W.1.

(Continued from the C. & D., June 6, p. 668.)

[ABSTRACT]

Chemicals

CALCI PHOSPHAS.—A variable mixture of normal, basic and acid calcium phosphates, and contains not less than 85 per cent. of total calcium. Tests: limit of carbonate, limit of chlorides, limit of sulphates, limit of iron. Arsenic limit, 5 parts per million; lead limit, 20 parts per million. To assay, dissolve about 0.5 gramme, accurately weighed, in 50 millilitres of water and 2 millilitres of hydrochloric acid, add 25 millilitres of solution of ammonium acetate and a slight excess of solution of ammonium oxalate; heat on a water-bath for thirty minutes, allow to stand for some hours, filter off the precipitate, wash, dry, moisten with sulphuric acid, ignite gently and weight the residue.

CALX CHLORINATA.—Contains not less than 30 per cent. of available chlorine. To assay, triturate 5 grammes, accurately weighed, in a mortar with successive small quantities of water, transferring the liquids to a 1,000-millilitre flask, until all the powder has been transferred to the flask. Dilute to 1,000 millilitres and shake thoroughly. Mix 100 millilitres with 3 grammes of potassium iodide dissolved in 100 millilitres of water, acidify with 5 millilitres of acetic acid and titrate the liberated iodine with *N*/10 sodium thiosulphate. Each millilitre of *N*/10 sodium thiosulphate is equivalent to 0.003546 gramme of available chlorine.

CHLORALIS HYDRAS.—Contains not less than 99 per cent. of $\text{CCl}_3\cdot\text{CH}(\text{OH})_2$. Liquefies between 50° and 58°, volatilising at a slightly higher temperature. Tests: absence of certain organic impurities, absence of chloral alcoholate. Leaves, on ignition, not more than 0.05 per cent. of residue. To assay, dissolve about 4 grammes, accurately weighed, in 10 millilitres of water, and add 30 millilitres of *N*/1 sodium hydroxide. Allow the mixture to stand for two minutes and titrate the residual alkali with *N*/1 sulphuric acid, using solution of phenolphthalein as indicator. Each millilitre of *N*/1 sodium hydroxide is equivalent to 0.1654 gramme of $\text{CCl}_3\cdot\text{CH}(\text{OH})_2$.

CHLOROFORMUM.—Trichloromethane containing from 0.5 to 1 per cent. w/w of dehydrated alcohol. S.G., 1.485 to 1.490. A small and variable fraction, usually not exceeding 15 per cent. v/v distils below 60° and the remainder distils between 60° and 62°. Allow 10 millilitres to evaporate from a large piece of filter paper placed on a warm plate; no extraneous odour is perceptible at any stage of the evaporation. Tests: limit of acidity, limit of chloride, limit of free chlorine, limit of hydrochloric acid, absence of foreign organic matter, absence of foreign chlorine compounds, limit of decomposition products, limit of aldehyde.

CHROMII TRIOXIDUM.—Contains not less than 95 per cent. of CrO_3 . Test: limit of sulphate. Heat 1 gramme to redness, extract the residue with hot water and filter; the filtrate evaporated to dryness weighs not more than 0.02 gramme. Assay by iodimetric titration.

COCAINÆ HYDROCHLORIDUM.—Specific rotation, $[\alpha]_D$, in 2 per cent. w/v aqueous solution, -70° to -72° . A solution of 0.5 gramme in 10 millilitres of water requires for neutralisation not more than 0.5 millilitre of *N*/50 sodium hydroxide, using one drop of solution of methyl red as indicator. Tests: limit of readily carbonisable matter, limit of reducing substances and cinnamylcocaine, absence of isatropylcocaine. 0.2 gramme, on ignition, leaves not more than 0.0002 gramme of residue.

CODEINA.—Alkaloid obtained from opium or produced by the methylation of morphine. Melting point, 155° to 156° after drying at 100° . Tests: distinction from morphine, limit of readily carbonisable matter, limit of morphine. 0.2 gramme, dried to constant weight at 100° , loses not more than 0.012 gramme, and, on ignition, leaves not more than 0.0002 gramme of residue. Dissolve 0.1 gramme in 1 millilitre of sulphuric acid, adding 1 drop of test solution of ferric chloride, or of solution of ammonium molybdate and warm gently; a bluish-violet colour is produced, which is changed to red by a drop of dilute nitric acid.

CODEINÆ PHOSPHAS.—Tests: limit of morphine, limit of chlorides, limit of sulphates. 0.2 gramme, dried to constant weight at 100° , loses not less than 0.008 gramme and not more than 0.014 gramme.

CREOSOTUM.—Obtained by the distillation of wood tar, and consists of a mixture of guaicol, $\text{C}_6\text{H}_4(\text{OH})\cdot\text{OCH}_3$, creosol, $\text{CH}_3\cdot\text{C}_6\text{H}_3(\text{OH})\cdot\text{OCH}_3$, and other phenols. To 10 millilitres of a saturated aqueous solution add 1 drop of solution of ferric chloride; a very transient violet blue colour is produced: on the addition of a few more drops of solution of ferric chloride, the liquid becomes cloudy and the colour changes rapidly through greyish-green to muddy brown with the formation of a brown precipitate. Tests: distinction from phenol and coal tar creosote, distinction from coal tar creosote, absence of hydrocarbons and bases. S.G., not below 1.070. Boiling point, begins to distil at about 200° and not less than 95 per cent. distils between 200° and 230° .

CRETA.—Contains not less than 97 per cent. of CaCO_3 , calculated with reference to the substance dried at 100° . 1 gramme boiled with 50 millilitres of water and filtered yields a filtrate which is neutral to litmus. Tests: limit of aluminium, iron, phosphate and matter insoluble in hydrochloric acid, limit of chlorides, limit of sulphates. Arsenic limit, 5 parts per million; lead limit, 20 parts per million. Losses not more than 1 per cent. of its weight when dried at 100° . To assay, dissolve about 2 grammes, accurately weighed, in 50 millilitres of *N*/1 hydrochloric acid and 100 millilitres of water, boil, cool and titrate the excess of acid with *N*/1 sodium hydroxide using methyl orange as indicator.

CUPRI SULPHAS.—Contains not less than 98.5 per cent. and not more than the equivalent of 101 per cent. of $\text{CuSO}_4\cdot 5\text{H}_2\text{O}$. Tests: limit of acidity, limit of zinc and lead, limit of iron. Arsenic limit, 10 parts per million. Assay by iodimetric titration.

DIAMORPHINÆ HYDROCHLORIDUM.—Melting point, 229° to 230° . Test: limit of morphine. 0.2 gramme, dried to constant weight at 100° , loses not more than 0.009 gramme, and, on ignition, leaves not more than 0.0002 gramme of residue.

FERRI ET AMMONII CITRAS.—Contains not less than 20.5 and not more than 22.5 per cent. of total Fe. Test: limit of sulphates. Arsenic limit, 5 parts per million. To assay, dissolve about 0.5 gramme, accurately weighed, in 15 millilitres of water, and 1 millilitre of sulphuric acid and warm until the dark brown colour becomes pale yellow. Cool to 15° and add $N/10$ potassium permanganate drop by drop until a pink colour persists for five seconds. Add 15 millilitres of hydrochloric acid and 2 grammes of potassium iodide, allow to stand for three minutes and titrate with $N/10$ sodium thiosulphate. Each millilitre of $N/10$ sodium thiosulphate is equivalent to 0.005584 gramme of Fe.

FERRI ET QUININÆ CITRAS.—Contains not less than 14.5 and not more than 15.5 per cent. of anhydrous quinine, and not less than 12 and not more than 14 per cent. of total Fe. Test: limit of sulphates. Arsenic limit, 5 parts per million. To assay for quinine, dissolve about 5 grammes, accurately weighed in 25 millilitres of water, add a slight excess of dilute solution of ammonia and extract the quinine completely with ether. Distil off the ether, dry at 100° and weigh. For iron, evaporate the aqueous solution from which the quinine has been extracted, by heating on a water-bath until the ether and the excess of ammonia are completely expelled. Dilute to 100 millilitres with water, measure 20 millilitres of the solution, and complete the assay as directed under "Ferri et Ammonii Citras," using 20 millilitres of hydrochloric acid.

FERRI SULPHAS.—Contains not less than 99.0 per cent. of $\text{FeSO}_4 \cdot 7\text{H}_2\text{O}$. Tests: absence of oxysulphate, limit of copper and lead, limit of acidity. Arsenic limit, 2 parts per million. To assay, titration with $N/10$ potassium permanganate.

FERRI SULPHAS EXSICCATUS.—Contains not less than 80 per cent. of FeSO_4 . 2 grammes dissolves slowly in 7.5 millilitres of freshly boiled and cooled water and 0.5 millilitre of $N/1$ sulphuric acid forming a clear solution. Arsenic limit, 2 parts per million. For assay titration with $N/10$ potassium permanganate.

FERRUM.—Metallic iron in the form of fine bright wire, having a diameter of about 0.1 millimetre (No. 42 Standard Wire Gauge). Arsenic limit, 200 parts per million.

FERRUM REDACTUM.—Contains not less than 80 per cent. of metallic iron, Fe. Arsenic limit, 200 parts per million.

GLUCOSUM LIQUIDUM.—May be obtained by the hydrolysis of starch and consists of a mixture of dextrose, maltose, dextrin and water. An aqueous solution is dextro-rotatory and yields a red precipitate on warming with solution of potassio-cupric tartrate. Refractive index at 20° , not less than 1.4900. Test: limit of acidity. Arsenic limit, 2 parts per million; lead limit, 2 parts per million. Sulphur dioxide limit, 450 parts per million. Moisten 2 grammes with sulphuric acid and ignite gently, again moisten with sulphuric acid and re-ignite; the residue weighs not more than 0.012 gramme.

GLYCERINUM.—Contains not less than 98 per cent. of $\text{C}_3\text{H}_5(\text{OH})_3$. S.G., 1.260 to 1.265 (corresponding to 98 to 100 per cent. of $\text{C}_3\text{H}_5(\text{OH})_3$); refractive index at 20° , 1.470 to 1.473. Test: limit of copper. Arsenic limit, 4 parts per million; lead limit, 1 part per million. Leaves, on ignition, not more than 0.01 per cent. w/w of residue.

HEXAMINA.—Contains not less than 99 per cent. of $(\text{CH}_3)_6\text{N}_4$. Arsenic limit, 2 parts per million; lead limit, 2 parts per million. Leaves, on ignition, not more than 0.05 per cent. of residue. To assay, dissolve about 1.5 grammes, accurately weighed, in 10 millilitres of water, add 50 millilitres of $N/1$ sulphuric acid, and boil gently until the odour of formaldehyde has disappeared, replacing the water evaporated from time to time; titrate the excess of sulphuric acid with $N/1$

sodium hydroxide, using solution of methyl red as indicator. Each millilitre of $N/1$ sulphuric acid is equivalent to 0.03503 gramme of $(\text{CH}_3)_6\text{N}_4$.

HOMATROPINÆ HYDROBROMIDUM.—Melting-point, about 214° with partial decomposition. Tests: absence of most other alkaloids, limit of atropine, hyoscyamine and hyoscyne. 0.2 gramme, on ignition, leaves not more than 0.0002 gramme of residue.

LEVULOSUM.—Levulose may be prepared from invert sugar or from honey. Consists chiefly of levulose $\text{C}_6\text{H}_{12}\text{O}_6$ (mol. wt. 180.1) with small quantities of dextrose and water. An aqueous solution is levo-rotatory and yields a copious precipitate of cuprous oxide on warming with solution of potassio-cupric tartrate. Arsenic limit, 2 parts per million; lead limit, 2 parts per million. Loses not more than 5 per cent. on drying at 105° . Test: limit of sulphated ash.

MENTHOL.—A saturated cyclic alcohol, menthan-3-ol, obtained from the volatile oils of various species of *Mentha*. Melting point, 42° to 43° . An alcoholic solution is levo-rotatory and neutral to litmus. Leaves, on volatilisation, not more than 0.05 per cent. of residue. Test: distinction from thymol.

NITROGENII MONOXIDUM.—May be prepared by the action of heat on ammonium nitrate. When drawn from a cylinder in an upright position it contains not less than 93 per cent. v/v of nitrous oxide. Contains not more than 50 parts per million v/v of carbon monoxide. For this determination the gas used is the first portion drawn from the cylinder and is taken with the cylinder in the upright position. Pass 5 to 10 litres of the gas through a purifying train comprising (1) fuming sulphuric acid, (2) sulphuric acid, (3) 33 per cent. w/v solution of potassium hydroxide, (4) soda lime, (5) potassium hydroxide, (6) phosphorous pentoxide, and then through a tube containing iodine pentoxide (previously dried at 200°), maintained at a temperature of 120° . Absorb the liberated iodine in solution of potassium iodide. Sweep out the apparatus by passing through 5 litres of air free from carbon monoxide. Titrate the iodine formed with $N/500$ sodium thiosulphate solution. Each millilitre of $N/500$ sodium thiosulphate is equivalent to 0.112 millilitre of carbon monoxide at N.T.P. Blank determinations should be carried out before and after the test, using 5 litres of air free from carbon monoxide. Tests: limit of water vapour and carbon dioxide, limit of uncondensable gases, absence of arsenuretted hydrogen, phosphoretted hydrogen, absence of halides, sulphuretted hydrogen, limits of acidity and alkalinity, limit of reducing substances, limit of oxidising substances.

OXYGENIUM.—May be prepared by the fractional distillation of liquid air or by the electrolysis of water. It contains not less than 98 per cent. v/v of O_2 . The residue may be either argon, nitrogen or hydrogen. Tests: distinction from nitrous oxide, limit of carbon dioxide, limit of halogens, limit of acids or alkalies, limit of oxidising substances. Assay: shake about 50 millilitres, accurately measured in a calibrated tube, with 10 millilitres of alkaline solution of pyrogallol; not less than 98 per cent. v/v is absorbed.

Fixed Oils

OLEUM HYDNOCARPI ÆTHYLICUM.—A mixture consisting mainly of the ethyl esters of chaulmoogric and hydnocarpic acids, produced by esterifying the fatty acids of hydnocarpus oil with alcohol, or industrial methylated spirit, the crude product being subsequently washed with a solution of sodium carbonate to remove fatty acids and finally purified by distillation under reduced pressure. A colourless or faintly yellow, limpid oil; odour, characteristic; taste, slightly acid. Soluble in six or more volumes of cold alcohol (90 per cent.); miscible with ether, chloroform or carbon disulphide. Specific gravity ($15.5^{\circ}/15.5^{\circ}$), 0.9050 to 0.9100; optical rotation, not less than $+45^{\circ}$; refractive index at 20° , 1.458 to 1.462; acid value not greater than 1.0; saponification value, 190 to 196; iodine value, 88 to 94.

(To be continued.)

Corner for Students

Conducted by Leonard Dobbin, Ph.D.

Communications should be addressed "Corner for Students, 'The Chemist and Druggist,'
28 Essex Street, London, W.C.2."

Report on the May Analytical Exercise

THE powder distributed to students on May 5 contained nine parts by weight of potassium chloride and one part of ammonium dihydrogen arsenate. The calculated composition of such a mixture is:—

K	...	...	...	47.2
NH ₄	...	...	...	1.1
H	...	...	...	0.1
Cl	...	...	...	42.8
AsO ₄	...	...	...	8.7
				99.9

Samples of the powder were distributed to eighteen students and twelve reports of analyses were received for examination. Correct results were returned in five of these reports so that the prize awards had to be determined by careful comparison of the sufficiency of the tests applied, and of the evidence adduced in reaching these results, as well as of the neatness and fullness of the reports themselves. Chloride was mentioned in every report; potassium and ammonium were each missed in one instance; while arsenate was missed by six students. Hygroscopic moisture supplied a considerable part of the small proportion of water that was evolved when the powder was heated in a dry tube.

Consisting of a mixture of only two salts, instead of the usual three of the tournament exercises, this exercise was of a generally simpler description than the latter, although an element of difficulty was presented by the small proportion of the arsenate, as compared with that of the chloride. The proportions were designedly chosen so as to ensure that an aqueous solution of the powder should yield at first with silver nitrate only a white precipitate of silver chloride, and that this should not become mixed with brown silver arsenate until further silver nitrate was added in considerable quantity. The presence of the arsenate was thus rendered distinctly liable to be overlooked unless the necessary precautions were taken to avoid this, and the result proved that exactly one-half of our correspondents omitted to take these precautions. One of the most rapid methods by which the arsenate could be detected with certainty in the original solution is the little known—or at any rate, the seldom used—test by adding sodium thiosulphate to the mixture containing hydrochloric acid and hydrogen sulphide, which have been added as group reagents for Groups I and II and have failed to yield any precipitate in the cold. The arsenate is reduced by the thiosulphate, which becomes converted into tetrathionate, and a yellow precipitate of arsenious sulphide is instantly formed. Where arsenate is suspected in consequence, for example, of a molybdate reaction having been observed, and also in any case where the non-formation of a precipitate with hydrogen sulphide seems to indicate the absence of all Group II metallic radicals, the addition of sodium thiosulphate to a small portion of the hydrochloric acid solution (adding hydrogen sulphide, if not already present) is therefore advisable as a means of at once establishing the presence or absence of arsenate.

PRIZES

The First Prize for the best analysis has been awarded to:—

JACK HANSON, 59 Clifton Common, Brighouse, Yorkshire.

The Second Prize has been awarded to:—

HORACE HOYLE, 11, Waterside, Slaithwaite, Huddersfield.

First Prize.—Any scientific book that is published at a price not greatly exceeding fifteen shillings may be taken as a first prize.

Second Prize.—Any scientific book which is sold for about seven shillings and sixpence may be taken as a second prize.

The students to whom prizes are awarded are requested to write at once to the publisher, naming the book or books they select.

MARKS AWARDED FOR ANALYSES

Jack Hanson (1st prize)	...	...	99	Waage	...	...	81
Horace Hoyle (2nd prize)	...	...	98	Logie	...	...	77
In Utrumque Paratus	...	...	97	Hopeful	...	...	77
Tibo	...	...	97	Nitrohyd	...	...	76
Dunelmian	...	...	96	P. Sylvestris	...	...	69
				Semper Fidelis	...	...	53
				Analyst	...	...	48

TO CORRESPONDENTS

WAAGE.—The pungent odour observed on heating the powder with dilute hydrochloric acid was not due to sulphur dioxide, but simply to the volatilisation of some of the hydrochloric acid. Read what is stated in the general remarks concerning the reduction of an arsenate by sodium thiosulphate in presence of hydrogen sulphide.

LOGIE.—A repetition of the test for a nitrate did not confirm your report of its presence.

HOPEFUL.—Having proved that the powder contained an ammonium salt you should have tested for potassium in a portion in which the ammonium salt had been decomposed by heating, since a moderately concentrated solution of such a salt may yield a precipitate of ammonium hydrogen tartrate, which resembles the corresponding potassium compound, but is distinctly more readily soluble in water. Study the methods for distinguishing phosphate from arsenate.

NITROHYD.—You do not report any preliminary tests. Had you tried these you would most likely have been led to search for the arsenate.

P. SYLVESTRIS.—Note that chlorides, as a rule, do not yield chlorine when simply heated, those of gold and platinum being noteworthy exceptions. No special delicacy of treatment was required to reveal the presence of an ammonium salt. You reported the presence of zinc as a conclusion from altogether insufficient evidence.

SEMPER FIDELIS.—There should not have been any difficulty in procuring confirmatory evidence of the presence of potassium, since the proportion in the mixture was exceptionally large. The irritating gas which you mistook for bromine was hydrochloric acid.

ANALYST.—You report that part of the precipitate produced on adding silver nitrate to a solution of the powder acidified with nitric acid was soluble in ammonia, and that you tested the other part and found it to be a citrate. The precipitate was, however, completely soluble in ammonia, and, from the intimation of the exercise it was to be assumed that only inorganic acid radicals would be included. As you withheld any description of the tests which led you to conclude that a citrate was present, it is not possible to point out how you fell into error. Preliminary tests should have been applied to the powder; also tests for ammonium and a number of acidic radicals should not have been omitted.

*** The competitions in this column are now discontinued for the summer. They will be resumed in October.

Trade Report

The prices given in this section are those obtained by importers or manufacturers for bulk quantities or original packages. To these prices various charges have to be added, whereby values are in many instances greatly augmented before wholesale dealers receive the goods into stock, after which much expense may be incurred in garbling, packing, etc. Qualities of chemicals, drugs, essential and fixed oils, and many other commodities vary greatly, and higher prices than those here quoted are charged for selected qualities of natural products even in bulk quantities.

28 Essex Street, W.C.2, June 11

GENERALLY quiet and subdued markets continue to be reported in most directions, but this week there is a marked falling off in the number of easier markets and prices in many cases seem to have touched bottom. Outside the question of lack of demand, it is felt that, having reached well below economic levels, no good purpose will be served by further depressing values. These downward movements in values during the past few months have not resulted in increased buying; in fact, they appear to have had the reverse effect of inducing a feeling of nervousness, reflected in the lack of confidence on the part of buyers. In pharmaceutical products a moderate business in small quantities continues, and prices, thanks to conventions, are holding up fairly well. The seasonal products, citric and tartaric acids, are still dull and unsteady, and cream of tartar is by no means the strong market it usually is at this period of the year. There is still a sluggish tone about all the Mincing Lane markets, business being generally slow. Bids against the quoted prices are the basis of business of any size in many cases, but there are exceptions, such as, for instance, cod-liver oil, where the shipment market is gradually making ground each week. The call for essential oils is still very limited, and the seasonal products are no doubt being affected by the inclement weather. Quoted prices are in many cases being slightly discounted for business of any size. Genuine distilled lime oil is scarce. Japanese dementholised peppermint is steady, although quiet. In industrial chemicals there is little of interest to comment on. The potash salts and red and white leads, which were reduced last week, are now fairly steady. In coal-tar products the better feeling in cresylic acid is being maintained, with inquiry quite good. In the fixed oils group there has been a check to the recent heavy and continued slump in values, but business remains slow throughout.

Firmer	Easier	
Cod-liver oil	Antimony	Coconut
Lime oil	Cajuput oil	(desiccated)
	Chamomiles	Ginger
	Cocoa butter	Pepper

Pharmaceutical Chemicals, etc.

DESPITE the continued lack of activity in this market the general tone is holding steady and there is no material change to report. This satisfactory state of affairs is largely due to the operation of price controls. Citric and tartaric acids are still meeting with unsatisfactory business, while cream of tartar is about steady on a quiet market.

ACETANILIDE is steady with business small: B.P. crystals and powder, 1s. 4½d. to 1s. 6d. per lb., as to quantity.

ADRENALIN is quoted on spot from 3s. to 3s. 3d. per gram. in tubes.

AMIDOL is meeting with a limited business on a steady market: one cwt., 7s.; 56lb., 7s. 3d.; 28 lb., 7s. 6d.; 14 lb., 7s. 9d. per lb., in 7-lb. tins.

AMIDOPYRIN is offering on spot at level rates with business rather poor: crystals, five cwt., 12s. 9½d.; two cwt., 13s. 0½d.; less than two cwt., 13s. 3½d. per lb., with powder 1½d. per lb. extra.

AMMONIUM BENZOATE is quiet with values about 3s. 4d. per lb.

AMMONIUM CARBONATE is unchanged, with resublimed about 1s. per lb.

AMMONIUM ICHTHOSULPHONATE is of occasional interest: market steady: one cwt., 1s. 1½d., in 14-lb. tins; 1s. 2½d.

in 1-lb. tins; 1s. 4d. in 8-oz. tins, and 1s. 7½d. per lb. in 4-oz. tins.

ASPIRIN continues in about normal demand and the market is generally steady, only negligible quantities of outside material offering. Home trade: ten cwt., 2s. 7d.; five cwt., 2s. 8d.; one cwt., 2s. 8½d.; 28 lb., 2s. 9d.; 14 lb., 2s. 10d.; 7 lb., 3s.; 1 lb., 3s. 4d. per lb. Export to Colonies and British Possessions: ten cwt., 2s. 7d.; five cwt., 2s. 8d.; one cwt., 2s. 8½d. per lb., f.o.b.; less than one cwt., 2s. 9d., ex works.

ATROPINE SULPHATE has been dull: quoted on spot from 7s. to 7s. 3d. per lb., as to quantity.

BARBITONE is well held at former rates, although the market is quiet: spot, one cwt., 7s. 3d.; smaller parcels, up to 7s. 9d. per lb.

BENZOIC ACID (B.P.) is a fairly bright market and there is no material alteration in values to record: quantities, ex works, 1s. 9½d.; spot parcels, 1s. 10d. to 1s. 10½d. per lb., ex store.

BISMUTH SALTS.—Convention prices are steady: some outside competition: carbonate, 7s. 3d.; subnitrate, 6s. 6d. per lb., in minimum cwt. lots.

BROMIDES.—These products have been in rather restricted demand of late and there is keen competition for the business, resulting in some price cutting for important orders: ammonium, about 1s. 7½d. to 1s. 7¼d.; potassium, B.P. crystals, 1s. 4d.; granular, 1s. 3½d.; sodium, B.P., 1s. 6¼d. per lb., and slightly less for large quantities.

BUTYL CHLORAL HYDRATE is about unchanged on a slow market: 14 lb., 8s.; 7 lb., 8s. 3d.; 1 lb., 8s. 6d. per lb., in 1-lb. bottles.

CAFFEINE is rather easy as quoted, with business dull: pure alkaloid, 7s. 3d. to 7s. 6d.; citrate, 5s. 7d. to 6s. per lb.

CALCIUM LACTATE meets with a moderate business and the market is steady: spot, 1s. 1½d. to 1s. 3d. per lb., as to quantity.

CHLORAL HYDRATE continues very steady, with home makers leading the market: duty-paid crystals, 2s. 11½d. to 3s. 1½d. per lb., as to quantity and packing; foreign, 3s. 3d. per lb., spot.

CHLOROFORM, in drums, 2s. 3d. to 2s. 6d.; Winchester, 2s. 3½d. to 2s. 6½d.; 2-lb. bottles, 2s. 4½d. to 2s. 7½d.; 1-lb. bottles, 2s. 5½d. to 2s. 8½d.; 8-oz. bottles, 2s. 6½d. to 2s. 9½d.; 4-oz. bottles, 2s. 8½d. to 2s. 11½d. per lb., for 56-lb. up to 10-cwt. lots, carriage paid.

CITRATES are unchanged at the recently revised prices: potassium citrate, B.P., 1s. 7d.; sodium citrate, B.P.C. 1923, 1s. 8d.; ferri ammon. cit., B.P. (Brown), 1s. 9d. per lb., in 28-lb. lots; 7-lb. lots, 5d. per lb. dearer.

CITRIC ACID (B.P. crystals).—A rather poor week of business is reported, with the market depressed and none too steady. Business of any size continues to be a matter of negotiation, the quoted rates applying only to comparatively small spot business of a few cwt.: foreign, on spot, 11d. to 11½d. per lb., less 5 per cent., carriage paid; for shipment, 10½d., c.i.f., is mentioned, but of no interest. British makers' price, 11½d. per lb., less 5 per cent. discount.

COCAINE.—There is no change in Convention prices: hydrochloride, 25 oz., 20s. 11d.; 16 oz., 21s. 7d., and less, 22s. 3d. per oz.; pure, 22s. 11d. up to 24s. 4d. per oz.; 1-oz. tins, 2½d. extra.

COPPER NITRATE is unchanged at makers' prices: 56 lb., 1s. 6d.; 7 lb., 1s. 7d.; and 1 lb., 1s. 10d. per lb.

CREAM OF TARTAR is again about level on the week, while business has been limited in volume. Despite the lack of good demand values for foreign on spot are about maintained at 7s. 6d. per cwt., less 2½ per cent., carriage paid, and slightly less for big orders. British makers' price for 99 to 100 per cent., 82s. per cwt., less 2½ per cent. discount.

CREOSOTE CARBONATE remains slack: spot, 5s. 6d. to 5s. 9d. per lb.

ETHER (METHYLATED).—The market is steady at recently advanced rates: s.g. 0.750, 1s. 1½d.; 0.735, 1s. 2d.; 0.730, 1s. 2d.; 0.725, 1s. 4d. per lb., in w.-quarts; 12 w.-quarts, halfpenny less, and packed in drums or carboys 1d. less.

GUAIACOL CARBONATE is of little interest: spot, 4s. to 4s. 3d. per lb., as to quantity.

HEXAMINE is moving in fair volume, but there is keen competition for important business, resulting in price cutting: free-running crystals, spot, 1s. 10d. to 1s. 10½d. per lb., and less for large contracts.

HYDROQUINONE is a fairly bright market and prices are holding steady: ten cwt., 3s. 9d.; five cwt., 3s. 9½d.; two

cwt., 3s. 10½d.; one cwt., 3s. 11d.; 56 lb., 4s.; 28 lb., 4s. 2d.; 14 lb., 4s. 4d.; 7 lb., 4s. 6d.; 1 lb., 5s. 4d. per lb., carriage paid.

IODINE is unchanged: resublimed, one cwt., 19s. 3d. up to 19s. 9d. for 14-lb. parcels.

Production in Japan during 1930 was estimated at 235,000 lb., against 210,000 lb. in 1929, 250,000 lb. in 1928, and 280,000 lb. in 1927. Exports from Japan: 1926, 64,455 lb.; 1927, 67,710 lb.; 1928, 56,495 lb.; 1929, 64,675 lb.; and 1930, 54,780 lb.

LACTIC ACID (B.P.).—Competition for the business continues keen: one to 99 ks., 1s. 8d.; 100 to 499 ks., 1s. 7d.; 500 to 999 ks., 1s. 6½d.; 1,000 to 4,999 ks., 1s. 6d.; and 5,000 ks. and over, 1s. 5½d. per lb., in 50-ks. carboys, carriage paid.

LANOLINE is steady: adepes lanæ, B.P., 5½d. to 6d. per lb., in one-cwt. kegs.

MERCURIALS.—Makers' prices continue unchanged: red oxide, 7s. 10d.; corrosive sublimate, lump, 6s. 7d.; pulv., 6s.; white precipitate, 6s. 9d.; calomel, 7s. 2d.; yellow oxide, 7s. 8d.; persulphate, 6s. 11d. per lb., in minimum cwt. lots; 1d. lb. more for less than one cwt.

METHYL SALICYLATE (B.P.) is moving in good quantity, mostly ex contracts; market is steady: one ton, 1s. 3d. up to 1s. 5d. per lb. for small parcels.

METHYL SULPHONAL is a steady but distinctly quiet market: two cwt., 12s. 7d.; one cwt., 13s., 56 lb., 13s. 5d.; small parcels, 13s. 10d. per lb.

METOL is of some interest: one cwt., 6s. 3d.; 56 lb., 6s. 4½d.; 28 lb., 6s. 6d.; less, 6s. 9d. per lb., carriage paid.

MILK SUGAR is in occasional demand, with prices about steady: one ton, 44s.; ten cwt., 45s.; two cwt., 46s. per cwt., in two-cwt. cases.

MORPHINE.—Makers' prices are unchanged: pure alkaloid, crystals, 24s. 8d.; precipitated, 24s. 5d.; hydrochloride, powder, 19s. 9d.; crystals, 20s. per oz., with lower prices for quantities.

PARA-FORMALDEHYDE is steady and a moderate business is reported: 100 per cent. powder, quantities in kegs, 1s. 4d.; smaller parcels, up to 1s. 5½d. per lb.

PARALDEHYDE is unchanged; business limited: quantities in demijohns, 10½d.; drums, 11½d.; Winchester, 1s. per lb.

PEPSIN is steady: B.P. soluble, 1,2500, 7s. 9d. to 8s.; 1,3000, 9s. 6d. to 9s. 9d. per lb., as to quantity.

PHENACETIN keeps steady and business is about average: crystals, ten cwt., 3s. 8d.; five cwt., 3s. 9d.; two cwt., 3s. 9½d.; and less, 3s. 10½d. per lb., with powder 1½d. per lb. extra.

PHENAZONE continues at Convention rates and a limited business is passing; some outside competition: crystals, ten cwt., 6s. 11d.; five cwt., 7s. 0½d.; two cwt., 7s. 2d.; and less, 7s. 3½d. per lb., with powder 1½d. extra.

PHENOLPHTHALEIN is unchanged, with the Convention and outside sources at level figures: ten cwt., 5s.; two cwt., 5s. 1d.; less than two cwt., 5s. 2½d. per lb. Export: ten cwt., 4s.; two cwt., 4s. 1½d.; less than two cwt., 4s. 2½d. per lb.

PHENYL ETHYL BARBITURIC is steady on quotation: 56 lb., 52s. 3d.; less than 56 lb., 54s. 9d. per lb.; bottles of one kilo and over free; same prices for sodium.

PIPERAZINE is dull, with prices steady: one cwt., 26s. 10d.; 56 lb., 27s. 8½d.; 11 lb., 29s. 6d.; 2 lb., 30s. 4½d.; less, 31s. 3d. per lb. in 8-oz. bottles; one-oz. bottle packing, 31s. 7d. to 35s. 11d. per lb.

POTASSIUM IODIDE is quoted on spot at 16s. 8d. to 17s. 6d. per lb., as to quantity; market is dull.

POTASSIUM PERMANGANATE (B.P.) is steady and there is a fair sale for small parcels: quantities, in drums, 5½d. to 5½d. per lb.; druggists' parcels, 5½d. to 6d. per lb.

POTASSIUM SULPHOGUAIACOLATE is slack: quoted on spot at about 3s. 6d. per lb.; cheaper for quantities.

PYROGALLIC ACID is fairly active and prices are steady: one cwt., 6s. 9d.; 56 lb., 7s.; 28 lb., 7s. 3d.; 14 lb., 7s. 9d.; 7 lb., 8s. 6d. per lb., in 7-lb. tins.

QUININE SULPHATE is steady at controlled prices: quantities at 1s. 8d. per oz.

RESORCIN is very steady at full rates and business is fair: spot, 2s. 9½d. to 2s. 11d. per lb., as to quantity.

ROCHELLE SALTS.—Makers' prices are steady: five cwt. or over, in one delivery, 77s. 6d.; less than five cwt., 80s.; less than one cwt., 82s. 6d. per cwt., carriage paid. PULV. SEIDITZ is also steady: five cwt. or over, in one delivery, 62s. 6d.; less than five cwt., 64s. 3d.; less than one cwt., 66s. 3d.; double, 68s. 9d., 71s. and 73s., carriage paid.

SACCHARIN is unchanged: 550, 50 lb., 42s.; 25 lb., 42s. 6d.; 1 lb., 43s. 6d. per lb.

SALICYLIC ACID (B.P.) is very steady at makers' prices, with no foreign material offering: one ton, 1s. 5d.; ten cwt., 1s. 5½d.; five cwt., 1s. 6d.; one cwt., 1s. 6½d.; small parcels, up to 2s. per lb.

SALOL is rather dull but quoted prices are maintained: crystals, two cwt., 3s. 7½d.; one cwt., 3s. 9d.; 56 lb., 3s. 9½d.; smaller lots, 3s. 10½d. per lb.; powder, 1½d. per lb. extra.

SODIUM BENZOATE (B.P.) is about steady, while business is keenly sought for: one ton, 1s. 6½d.; up to 1s. 7½d. per lb. for small parcels.

SODIUM DIETHYLBARBITURATE is dull: spot, 9s. to 9s. 3d. per lb., as to quantity.

SODIUM SALICYLATE (B.P.) is a steady market and business is about normal; home makers hold a strong position here. Home trade: two tons, 1s. 10d.; one ton, 1s. 10½d.; ten cwt., 1s. 11d.; five cwt., 1s. 11½d.; one cwt., 2s.; 28 lb., 2s. 1d.; 14 lb., 2s. 3d.; 7 lb., 2s. 4d.; 1 lb., 2s. 5d. per lb., with crystals 1d. per lb. extra.

SULPHONAL is still in but small demand, with spot values steady: crystals, 10s. 1d. to 11s. 2d. per lb., as to quantity, with powder 1½d. extra.

TARTARIC ACID (B.P. crystals).—This market appears to have suffered a further week of poor business, while the general tone is unsteady. Prices for large quantities are a matter of negotiation, the market quotation applying to small spot business: foreign, on spot, 10½d. to 11d. per lb., less 5 per cent., ex wharf, as to quantity, the lower price for fair sized parcels. British makers price, 11½d. per lb., less 5 per cent. discount.

THEOBROMINE is steady and rather quiet; pure alkaloid, 6s. 10d. to 6s. 11d.; sodium salicylate, 5s. 3d. to 5s. 4d. per lb., as to quantity.

THYMOL remains very quiet in demand and quoted prices are rather easy: synthetic white, one cwt., 6s. 1½d.; 56 lb., 6s. 2d.; 28 lb., 6s. 4½d.; 14 lb., 6s. 6d. per lb.; ex ajowan seed, one cwt., 7s. 3d.; 56 lb., 7s. 4½d.; 28 lb., 7s. 6d.; 14 lb., 7s. 9d. per lb.

VANILLIN.—There is still some outside material discounting the official scale of prices; business has been restricted: ex guaiacol, one ton, 13s.; ten cwt., 13s. 3d.; five cwt., 13s. 6d.; three cwt., 13s. 9d.; one cwt., 14s.; 56 lb., 14s. 3d.; 28 lb., 14s. 6d.; 14 lb., 14s. 9d.; less, 15s. per lb.; ex clove oil, 14s. 6d. to 16s. 6d. per lb., as to quantity, from one ton to less than 14 lb.

Crude Drugs, etc.

AGAR-AGAR is quieter, but the market is steady at about unchanged rates: Kobe No. 1, 3s. 11d. spot, 3s. 10½d. c.i.f.; No. 2, 3s. 8d. spot, 3s. 7d. c.i.f.; Yokohama, No. 1, 3s. 8d. spot, 3s. 6½d. c.i.f.

ANTIMONY.—The market is easier and continues dull: Chinese crude, spot, £19; for shipment, £13, c.i.f.; Chinese white oxide, spot, £30; for shipment, easier at £19 10s., c.i.f.

ASAFOETIDA.—The market is easier, with values about 60s. to 90s. per cwt., as to quality.

BALSAMS.—The market is still particularly quiet: tolu, good opaque, about 2s. 3d. per lb.; Peru, about 6s. to 6s. 2d., on spot.

BELLADONNA.—Leaves are offering on spot at about 64s. 6d., and for shipment at 60s., c.i.f.

CAMPHOR (REFINED).—The market is a shade easier and is dull: spot, Japanese slabs, 2s. 1d., c.i.f. 1s. 11d.; flowers, spot, 2s. 2d.; c.i.f., 1s. 11½d.; tablets, spot, 2s. 6½d.; c.i.f., 2s. 5d.

CARDAMOMS.—Market quiet: bold Ceylon-Mysore, 5s. 9d. to 6s.; mediums, 4s. to 4s. 3d.; small mediums, 2s. 9d. to 3s.; and smalls, 2s. 3d. to 2s. 6d.; greens, spot, 1s. 10d.; shipment, 1s. 6½d., c.i.f.; Bombay seeds, 2s. 11d. per lb., spot.

Landings during May, 280 cwt.; delivered, 258 cwt. Stocks at end of May, 1,337 cwt., against 1,902 cwt. in 1930; 1,487 cwt. in 1929, 1,733 cwt. in 1928, and 1,928 cwt. in 1927.

CASCARA SAGRADA.—The market has been dull: 1930 peel, about 44s. 6d., spot; shipment, 38s. 6d., c.i.f.

CASSIA FISTULA is stated to be scarce: good sound plump pod, 26s.

CHAMOMILES.—The market has been dull and is rather easier: spot, fair bold white, 115s.; medium, 107s. 6d.; small brownish, 100s.

CLOVES.—Business has been mostly quiet during the week with values slightly easier: Zanzibar, spot, 9d.; ship-

ment, July, 7½d.; July-August, 7½d., c.i.f.; Madagascar, spot, 8½d.; July, 7½d., c.i.f.

The landings of Zanzibar in London during the week ended May 30 were nil and the deliveries 19, leaving a stock of 739, against 1,463 in 1930 and 1,776 bales in 1929. From January 1 to date, landings of Zanzibar have been 846, against 5,845 in 1930, and the deliveries 1,120, against 4,380 in 1930. Landings of Madagascar for the week ended May 30 were nil and the deliveries 32, leaving a stock of 962, against 1,716 in 1930 and 565 bales in 1929. Landings of Madagascar this year to date have been 1,545, against 4,074 in 1930, and the deliveries 1,489, against 1,371 in 1930.

COCOA BUTTER.—The market has been quiet: prime English is slightly cheaper at 9d. to 9½d.; Van Houten's A., 9½d. per lb., in not less than one ton lots.

COCONUT (DESICCATED).—As anticipated, a further fall in values is recorded, with the market still unsettled and quiet: spot, fine and medium, 18s. 6d.; for shipment, June-July, halves, 16s., c.i.f.

COD-LIVER OIL.—Bergen reports that, owing to stormy conditions Finmarken fishing has been very unsatisfactory. The total catch of cod is now 39,400,000, against 60,700,000 in 1930 and 77,500,000 in 1929. The deficiency of medicinal oil to date is 19,719 hectol. The total production of medicinal oil so far this year is 58,436 hectol., against 78,155 hectol. in 1930 and 90,157 hectol. in 1929. Buying has been more in evidence during the past week, but producers are showing no desire to force sales. The market has a tendency to firm up and advance. Quotations for finest non-freezing steam-refined Lofoten oil are at 112s. to 113s. per barrel, c.i.f.; spot, minimum five-barrel lots, 115s. to 116s. per barrel. Some brands may be slightly cheaper.

GALLS.—The market has been dull: blues nominally quoted at 85s. per cwt., spot; whites, about 66s. per cwt., spot; greens are not available on spot.

Stocks at end of May, 174 cwt.; 1930, 668 cwt.; 1929, 1,103 cwt.; 1928, 1,544 cwt.

GELATIN has been in slow demand, but prices are keeping fairly steady: gold leaf, 2s. 1d.; silver leaf, 1s. 8d.; bronze leaf, 1s. 5d. per lb., in one-cwt. cases.

GINGER has been very dull, and West African on spot is easier at 22s.; for arrival, sellers 21s., c.i.f.

GUM ACACIA.—The market has remained dull and is slightly easier: Kordofan, cleaned, 34s.; natural, 33s.; Talha, 19s. per cwt., c.i.f. Persian insoluble Shiraz cleaned, nominal at 20s. to 22s. 6d., c.i.f.

Landings to end of May 9,143 cwt.; deliveries, 7,541 cwt.; stocks to date, 5,610 cwt.; 1930, 4,476 cwt.; 1929, 5,467 cwt.; 1928, 8,124 cwt.

HYDRASTIS.—There has been but limited interest in this market and spot is still about steady from 6s. per lb.

IPÉCAOUANHA.—The market has been flat and is slightly easier; Matto Grosso, spot, 6s. 9d. per lb.

JALAP.—Business is of no consequence with quoted prices unchanged: 13.6. 1s. 4d.; 16.6. 1s. 9d. per lb.

MENTHOL.—The market has been practically lifeless, and prices are nominal: K/S brands, about 13s. 6d. to 13s. 9d.; shipment, April-June, 13s. c.i.f.

MERCURY.—At the reduction in the shipment price of £5 per bottle recorded last week the market is steadier, and the Spanish-Italian interests appear to have regained their former position. Unless the outside competition, whose activities made it necessary for "Mercurio Europeo" to make the big reduction mentioned above, continue as serious competitors no further adjustment in values is likely in the near future. Current official quotation is £16 15s. per bottle, f.o.b.; spot, about £17 per bottle, for quantities.

PAPAIN.—The market is steady and quoted at fully 6s. 6d.

Exports from Ceylon for 1930 totalled 79,338 lb., valued \$167,400, against 128,463 lb. (\$234,450) in 1929 and 125,684 lb. (\$336,700) in 1928.

PEPPER.—After a further week of slow markets values quoted show a slight depreciation: Lampong spot, 5½d.; afloat, 5½d.; May-July, 4½d.; August-October, 4½d., c.i.f.; Tellicherry, spot, 5½d.; Aleppy, spot, 5½d.; white Muntok, spot, 8½d.; afloat, 8½d.; May-July, 7½d.; August-October, 7½d., c.i.f.

PIMENTO has remained quiet all the week with quoted prices about unchanged: spot, 3d.; July-August, 23s. 6d. c.i.f.

PSYLLIUM SEED.—New crop genuine black, Continental, offering from 1s. per lb. c.i.f.

French production during 1930 was estimated at 1,300 tons. Planting for 1931 crop is stated to be 50 per cent. greater than in 1929.

RUBBER.—Very dull markets have been reported all the week, and values are a fraction easier: No. 1 standard ribbed smoked sheet, spot, 2½d.; June, 2½d.; July, 2½d.;

August, 3d.; September-December, 3½d. U.K. stocks, 139,173 tons, against 102,936 tons a year ago.

SAFFRON.—After the reduction noted last week the market is somewhat steadier, and business has been rather better: super B.P., 36s. 6d.; prime, B.P., 41s. 6d.; extra, B.P., 38s. 6d. per lb.

SEEDS.—**ANISE.**—Spanish, 47s. 6d.; Bulgarian, 32s. 6d.; Russian, 30s. per cwt., spot. **CANARY.**—Market quiet with prices easy. Mazagan, spot, 21s.; Tangier, 20s.; Casablanca, 19s. 6d.; Larache, 20s.; Kenitra, 18s. 6d. spot. **CUMIN.**—Malta, spot, 55s.; Morocco, 50s. spot. Market is firmer owing to Continental demand: June-July shipment, sellers quoting 30s. c.i.f. **CORRINDER.**—9s. 6d. ten-ton lots, for shipment, new crop. 10s. c.i.f. **FENUGREEK.**—Old crop, 16s. 6d. spot; new crop, for shipment, 10s. 6d. c.i.f., business done. Tunisian, 17s. spot. **CARAWAY.**—Dutch new crop, spot, 28s. 6d. **MUSTARD.**—English, 22s. to 31s. per cwt., as to quality.

SENEGA.—The shipment position tends somewhat higher and stronger at about 2s. 1d. to 2s. 2d. per lb., c.i.f. Spot, 2s. 3d.

SENNA PODS.—Business has not been quite so good, but prices are being steadily held, specially for finest selected Alexandrian pods at about 5s. 6d. per lb.; seconds, 3s. 6d. to 3s. 9d.; medium, 1s. 9d. to 2s.; ordinary manufacturing 4½d. to 5d. per lb., as to quality.

SHELLAC.—The market has been slack, and the tone is becoming unsteady with values tending somewhat easier; TN orange standard quality, 70s.; fine orange, 82s. 6d. to 155s.; pure button, about 90s.; for delivery, TN August, 62s.; October, 63s. 6d.; for arrival, TN sellers, June-July, 57s. 6d. c.i.f.

TRAGACANTH.—It is reported that most of the stocks of medium to good qualities have been cleared, with values fully £14 to £22 per cwt.: fine ribbon, No. 1, £29 to £31; ordinary, £27 to £28; seconds, £23 to £26; thirds, £18 to £22; fourths, £10 to £16; thick white Persian leaf, £7 to £9 10s. per cwt.

WAX (VARIOUS).—Only a moderate volume of business is being transacted in these products, but spot values are fairly steady: JAPANESE, on spot, 49s. per cwt.; CARNAUBA, fatty grey and chalky grey, 75s.; medium yellow, 140s.; fine yellow, 175s. per cwt., spot; CANDELLA, 67s. 6d. to 70s. per cwt., spot; SPERMACEET, 10d. per lb., spot; PARAFFIN, 17s. 6d. to 27s. 6d. per cwt., as to melting point; CERESINE, 35s. to 80s. per cwt., as to colour and melting point; BEES, bleached, discs, £7 5s.; slabs, £7 2s. 6d.; yellow, refined, £6 5s.; crude yellow, £5 5s. per cwt., spot.

Essential Oils.

In most instances the demand for these products remains slow and quoted prices are by no means steady. A good deal of the limited business passing is based on bids discounting the paper figure. Japanese peppermint is holding up steadily. There is a scarcity of genuine distilled lime, which has reached a high figure.

ALMOND remains quiet, with spot offers of foreign (s.a.p.) about 7s. per lb.

ANISE (STAR) has remained rather dull and is perhaps a shade easier: "Red Ship" brand, spot, 2s. 1d. per lb., in leads; c.i.f., 1s. 8½d.

BERGAMOT is unsteady, with business lacking: 38 to 40 per cent., about 5s. 10d. to 6s.; for shipment, about 5s. 6d. c.i.f.

BOIS DE ROSE meets with occasional small business: Cayenne, 3s. 11d.; Brazilian, 2s. 9d. per lb.

CAJUPUT is slightly easier, with spot at 2s. 2d. to 2s. 3d. per lb.; for shipment, 1s. 6d. per lb., c.i.f.

CARAWAY is about unchanged, but the market is still dull and rather unsteady: Dutch, double-distilled, 6s. 3d., spot; crude, 5s. 3d. to 5s. 4d., c.i.f.

CASSIA is in slow demand and is rather easy as quoted: for oil passing B.P., on spot, about 3s.; forward, about 2s. 8d. per lb. c.i.f.

CINNAMON LEAF is dull and some offers may be slightly cheaper than 3s. 6d. spot; for shipment, about 2s. 8d., c.i.f., is mentioned.

CITRONELLA continues in limited call and quoted prices for Ceylon are barely maintained: Ceylon, on spot, about 1s. 7d.; forward, 1s. 3d., c.i.f.; Java, on spot, about 2s.; for shipment, about 1s. 11½d. per lb., c.i.f.

Exports from Java for May amounted to 74 tons, making the total for the period January-May 1931 354 tons, against 324 tons for the same period in 1930 and 450 tons in 1929.

EUCALYPTUS has been very quiet: 70 to 75 per cent., about 1s.; 80 to 85 per cent., about 1s. 2d. per lb.

LAVENDER is of little interest and prices are about unchanged: French 3s. 3d. to 40 per cent., on spot, about 8s. 2d. to 8s. 3d. per lb.

LIME.—There is an acute shortage of genuine distilled and the price on spot is firm and fully 40s. per lb.; hand-pressed, spot, 50s. to 52s. 6d. per lb.

LEMON.—The market has again been quiet: Sicilian hand-pressed, spot, 2s. 7½d. to 2s. 9d.; forward, 2s. 7d., c.i.f.; machine-made, spot, 2s. 3d. to 2s. 4½d.; forward, 2s. 1½d. to 2s. 2d. per lb., c.i.f. Californian, spot, 2s. per lb.

ORANGE is not of much interest; market is about unchanged on quotation: Sicilian, spot, about 6s. 9d.; forward, 6s. 7½d., c.i.f.; Californian, 3s. 9d. to 3s. 10d. spot.

U.S. imports during March totalled 7,970 lb., valued \$26,398, of which 5,070 (\$22,672) were shipped from Italy and 2,900 (\$3,726) from Jamaica.

PALMAROSA remains in slow demand and tends to be unsteady: spot, barely 8s. 3d.; forward, 7s. 8d. per lb., c.i.f.

PATCHOULI has been dull: spot, Singapore, about 14s. per lb.

PEPPERMINT.—A moderate business is moving and there is a steady feeling in the market: Japanese dementholised, K/S brands, spot, 4s. 1½d. to 4s. 2d.; April-June, 4s. 1½d.; July-August, 4s. 2d.; October-December, 4s., c.i.f.; American, spot, 7s. 3d. to 8s. 3d. per lb., in tins, as to brand; shipment, 6s. 9d. to 7s., c.i.f.

SASSAFRAS is about steady, but business is of little importance: on spot, from 4s. 4d. to 5s. per lb., as to origin.

SPEARMINT is still quoted close up to 10s. on spot, although the shipment offer is at 8s. 4d. to 8s. 6d. per lb., c.i.f.

The following arrivals have taken place from the countries indicated during the period June 3 to 9 inclusive: anise, star (Hong-K.) 10 pkgs., (Fr.) 64 pkgs., (China) 5 pkgs.; bergamot (It.) 30 cs.; cedarwood (Sp.) 1 dm.; cinnamon (Cy.) 2 dms.; citronella (Fr.) 3 dms., (Cy.) 6 dms., (Jv.) 2 dms.; lavender (Fr.) 1 cs.; lemon (It.) 95 cs.; orange (Fr.) 4 dms.; peppermint (U.S.) 2 cs.; pine (Gy.) 1 cs.; rosemary (Sp.) 1 dm.; various (It.) 113 cs., (Fr.) 10 cs., (Gy.) 2 cs.; wormseed (U.S.) 1 cs.

Fixed Oils, etc.

AFTER the continued depreciation in values of many products recorded during the past few weeks there is a slightly steadier feeling in the market. Business, however, is still generally unsatisfactory, the demand being very restricted in all instances. ACID OILS remain quiet, but the market is holding at last week's figures: coconut and/or palm kernel, 20s.; groundnut, 16s.; soya, 14s., spot. CASTOR is a little steadier, but there is still but a very limited business moving: pharmaceutical, 38s.; first pressings, 24s.; second pressings, 31s. (barrels); cases £4 per ton extra, ex mills, Hull, in not less than one-ton lots; Malaya, 29s. 3d. (barrels), c.i.f.; Bombay, 29s. 3d. (drums), c.i.f. COCONUT remains dull, but prices are unchanged: deodorised, 28s. 6d. (barrels), spot; Ceylon, 18s. (drums), c.i.f. COTTON is steadier after the recent continued slump, but business is still small: deodorised, 24s. 9d.; common edible, 23s.; soapmaking, 22s.; crude, 20s. (barrels), spot. GROUNDNUT is unchanged on the week, with the market dull: deodorised, 23s. 3d. (barrels), spot; crude Oriental, 22s. 6d. (drums), c.i.f. LINSEED (raw, naked).—There is a slightly better tone and the market is now steady, with a limited business passing: on spot, 15s. 3d.; June, 14s. 3d.; July-August, 14s. 4½d.; September-December, 14s. 10½d.; boiled oil, on spot, 17s. 3d. OLIVE is about unchanged, but the market is unsteady and dull: edible, 4s. 10d.; B.P., 4s. 2d. per gallon, in 40-gallon barrels. PALM KERNEL shows no further reduction, but business is poor: deodorised, 26s. 3d.; crude, 21s. 6d., spot. PALM is not quite so depressed and only a slight depreciation in values is recorded this week; business has been slow: Lagos, 12s. 9d.; softs, 12s. 6d.; mediums, 13s. 3d.; hards, 13s. 6d.; bleached, 16s. 3d., spot. RAPE is a shade easier on a very quiet market: refined, 31s.; crude, 29s. 3d., spot. RESIN.—The market has been rather dull but values are maintained: American B, 12s.; D, 12s. 6d.; F/G, 13s. 9d.; W/G, 18s. 9d.; W/W, 20s. 6d., ex wharf, London. SOYA is rather quiet and unsteady: deodorised, 22s. 9d.; crude, 17s. 6d., spot (barrels). TURPENTINE.—Values are about level on the week, while the market has been rather quiet. Total London stocks, 23,235 barrels. On spot, 46s.; July-December, 46s. 6d.

Coal Tar Products, etc.

CRESYLIC ACID and carbolic acid crystals continue of interest, and these markets are very steady. In other directions there is little of interest to comment on, and business is rather quiet. BENZOL.—The market is a shade cheaper, and is now steady: Standard motor 90's, 1s. 4d., per gallon, in tank wagons, ex works; pure, per gallon, 1s. 6d. CARBOLIC ACID CRYSTALS (39° to 40° C) is receiving a fair inquiry, and the market is keeping steady: 100 tons, 5d.; 50 tons, 5½d.; 20-25 tons, 5½d.; 10 tons, 5¾d.; five tons, 5½d.; two tons, 5¾d.; one ton, 5¾d.; 10 cwt., 6d.; smaller lots, 6½d. to 6¾d. per lb., in drums, with over-casks, carriage paid or f.o.b.; crude carbolic 60's, 1s. 2d. to 1s. 4d. per gallon, naked at works. CRESYLIC ACID.—The market has continued to receive good inquiry and prices, as quoted, are steady; pale 98 to 100 per cent., 1s. 6d. to 1s. 8d.; dark, 95 per cent., 1s. 5d.; special qualities, 2s. 1d. to 2s. 2d.; per gallon, ex works. American duty-free acid 1s. 6d. to 1s. 8d. per gallon, f.o.b., for which there is a good inquiry. CREOSOTE OIL meets with a fair demand, with prices from 4d. to 5d. per gallon, as to quality and district. KEROSENE.—The market is unchanged: water white, 11½d.; standard white, 10½d. per gallon, in barrels, ex wharf, London; in bulk, 3d. per gallon less. MOTOR SPIRIT continues steady, and business is moving on a good scale; No. 1, 1s. 2½d.; No. 3, 1s. 0½d. per gallon, for U.K., except North Scotland, which is 1d. more, delivered in bulk; two-gallon tins, 1½d. per gallon more, except in inner London zone, 1d. extra. NAPHTHALENE is dull with values unchanged: flakes, £11 11s.; balls, £11 per ton, in cases. PITCH.—Some inquiry for next season with the price nominal at 42s. 6d. per ton, f.o.b. East Coast. PYRIDINE meets with occasional demand: 90 to 160, 3s. 4d. per gallon. SOLVENT NAPHTHAS are on the quiet side and are easier; 90 to 160, 1s. 3d.; heavy, 90 to 160, 1s. 1½d. per gallon, naked at works. TOLUOL is in quiet demand, and is slightly easier; commercial 90's, 1s. 9d. to 1s. 10d.; pure, 1s. 10½d. per gallon, ex works. XYLOL remains very quiet; commercial, 1s. 8d. to 1s. 9d.; pure, 1s. 11d. per gallon, ex works.

Trade-Mark Applications

The figures in parentheses refer to the classes in which the marks are grouped. A list of classes and particulars as to registration are given in "The Chemist and Druggist Diary," 1931, p. 345.

(From "The Trade Marks Journal," May 27, 1931.)

- "VEINOTROPE"; for medicines (3). By Société de Thérapie Bio-Chimique, 46 Avenue des Terres, Paris. 521,407.
- "FARVAN"; for ointment (3). By R. Lee, Vann Farm, Ockley, Surrey. 522,096.
- "CICORAL"; for medicinal chemicals (3). By Bayer Products, Ltd., 31 Basinghall Street, London, E.C.2. 522,278.
- "CAI" over "THE CAELENE CO." on design; for medicinal chemicals (3). By V. H. Griffiths, 38 Walbrook, London, E.C.4. 522,351.
- "KRINETA"; for hair lotions (43). By Ilex Supply Co., Ltd., 252 b & c, Gray's Inn Road, London, W.C.1. 521,905.
- "RAYEX"; for hair preparations (43). By The J. B. Williams Co., Glastonbury, Connecticut, U.S.A. 522,244.

APPLICATIONS FOR AMENDMENT.

According to "The Trade Marks Journal" of May 27, 1931, the specification for "DAWS ON" in Class 3, No. 517,947, by Dawsons (Chemists), Ltd., has been amended to exclude laxative tablets.

According to "The Trade Marks Journal" of May 27, 1931, the specification for "KILAMIC" in Class 2, No. 519,937, by Murphy & Co., Ltd., has been amended to "Chemical substances used for horticultural and sanitary purposes."

(From "The Trade Marks Journal," June 4, 1931.)

- "NIPPO"; for veterinary medicines (2). By Osmond & Son, Ltd., Standard Chemical Works, Doughty Road, Grimsby. 522,230. (Associated.)
- "OZAIR"; for germicides, etc. By J. McPhail McKenzie, 109 Colmore Row, Birmingham. 522,212.
- "LAVIPAN"; for chemicals (2). By Carr & Day & Martin, Ltd., Brunswick Park Road, New Southgate, London, N.11. 522,437.

Correspondence

Letters should be written on one side of the paper only. Correspondents may adopt an assumed name, but must in all cases furnish their real name and address to the Editor.

A Link with Professor Bentley

SIR,—In reply to "W. K.," I am one of the number who attended the lectures of Professor Bentley at Regent's Park, and well do I remember the scrambles for the specimens after the lectures. I possess still my note-book of the lectures, and note the simple definition of what a leaf is with which Professor Bentley commenced his first lecture.—Yours faithfully,

C. HANSON.

Liverpool.

SIR,—Your retrospect entitled "Professor Bentley's Demonstrations" (*C. & D.*, May 23, p. 622), and the letters from "W. K." and "A. H. C." in two subsequent issues, call to mind an event which, although half a century has elapsed, is still vivid in my recollection. I well remember that first early morning lecture in the museum of the Royal Botanic Gardens, Regent's Park, and Professor Bentley lecturing from the platform and handling with most affectionate care the profusion of freshly cut specimens around him provided by Higgins the head gardener; while shafts of sunlight stole through the windows and, against the green background of the trees in the garden outside, lent an unusual glamour to the scene. Professor Robert Bentley loved his subject, and was able to communicate much of his enthusiasm to his students, so that their studies took on an irresistible fascination—especially in the surroundings of his garden lectures, of which he was very proud. There also comes back to my mind, on this first morning, the figure of Joseph Ince seated on a bench in the left-hand side aisle apart from the students; he, it was whispered mysteriously, was taking descriptive notes of the occasion for publication in *THE CHEMIST AND DRUGGIST*. I would like to take this opportunity of expressing my appreciation of these extracts from the *C. & D.* of fifty years ago, especially as they must also have given pleasure to many others of the older school in reviving memories of events long past, but the recollection of which is still treasured.

Yours faithfully,

F. C. J. BIRD.

Devon Wharf, London, E.1.

SIR,—Fifty-seven years ago I attended a course of lectures on botany given by the curator at the Hull Botanic Gardens from 6 to 7 a.m. Our text-book was, of course, Bentley's "Botany." Being then, and ever since, an early riser, I was one morning sitting in the park on the Steverley Road, in brilliant sunshine, reading my Bentley's "Botany," when the clock of the church near by struck six, and that was after half-an-hour's walk from the place of business, where I was an indoor apprentice. It was a solemn but delightful moment which I shall never forget.—Yours, etc.,

SEPTIMUS WALGATE, Ph.C.

Brondesbury, London, N.W.6.

Examination Results

SIR,—"The Thistle" points out (*C. & D.*, May 30, p. 647) that the average Scottish apprentice receives a thorough training, both in the pharmacy and in the college, and that this may account for the higher percentage of passes in Scotland. The Scottish pharmacist dispenses the prescriptions of the medical men, and has always done so, so that the apprentice has better opportunities for practical experience in the pharmacy, and the tuition in the colleges is framed to supplement it. In this country we have little or no dispensing outside the Insurance work, and one can hardly claim that this kind of dispensing is pharmacy or in any way

adequate training for an examination so searching as that now in vogue. "The Thistle" states that chemists have the remedy for their inadequate remuneration in their own hands—by increasing their charges. Has he read the discussion which took place recently in the House of Commons during the reading of the Consumers' Council Bill, and the remarks which were made there with reference to chemists' prices? What would be said in the face of those remarks if as a body we raised our prices all round?

—Yours truly,

ROSA (9/6).

Port Amelia—An E.A. War Cemetery

SIR,—I was in Porto Amelia, Portuguese East Africa, recently, and in my wanderings round came upon a little cemetery consecrated to those who fell in or near to Porto Amelia. It was situated on a green hill. Round about there were bougainvilleas, oleanders, magnolias, hibiscus and many more trees and shrubs. It was a lovely day, and the birds were singing. In the distance was the blue ocean studded with palm-decked islands. How beautiful it all looked, the blue water with its fringe of white sands on one side and the verdure-clad hills on the other. Amidst the palms and the riot of blooms stood the peaceful little cemetery, with the lych gate on which was written, "Their name liveth for evermore," and an unfinished obelisk in the centre decorated with palm wreaths laid at the foot in memory of "The Glorious Dead." There were sixty-four little headstones bearing the names of the men. It was pathetic to see that the ages ranged from twenty-three onwards. Some of the headstones had texts on them—messages to the dead from their loved ones. Many were erected to R.A.M.C. men and drivers, also the Labour Corps. There were two big headstones—one to forty men of the Indian Army and another to twenty African soldiers. The graves were well kept. I believe that men from our cruisers come ashore and tend these graves. It is comforting to think that the British dead are tended by the British living in that far-off country. No lion nor any ravenous beast comes there, as high palings all round keep out any unwelcome intruders. As I turned to go I wished that I could have transported the relatives to that pathetic little resting place above the sun-kissed sea. It would have been such a consolation to them to know that their loved ones were remembered and that there was a fitting memorial to them in so beautiful a spot.

Yours, etc.,

Molo.

OLIVE L. CROOKE.

Council Election

SIR,—As one who was a candidate at the last election, may I be allowed to take exception to your correspondent's remarks about candidates returning thanks to those members who favoured them with support? Personally I think it just common courtesy to express one's gratitude for helping votes in a contest such as this is, especially when such a large percentage of our members are so apathetic that they will not even take the trouble to mark their voting paper and post it. Moreover, being a member of Council means a lot more than a few trips to the City; but it is probably just this unfortunate conception of "free trips to London" that lowers the value and importance of the Council in the eyes of a large number of members. It is long past the time for every member to take an active interest in pharmaceutical politics and for those in power to think 100 per cent. of the welfare of "the man behind the counter." May I appeal to all Scottish members for their support at the

forthcoming North British Executive election? All voting papers must be returned before next Tuesday, June 16, and I cordially thank everyone in anticipation.

Yours very faithfully,
THOMAS C. MILLER.

Dunfermline.

Competition

SIR,—The recommendations of "Stick at Nothing" (*C. & D.*, May 30, p. 647) as to the best way to meet the seven difficulties quoted by "In the Neck" amount, all told, to advice to the latter to develop his personality in order to fight the competition. Personality is the one thing which no competitor, whether small or large, single shops, combines or co-ops, can take away from the chemist who endeavours to make the most of it. Big concerns cannot provide their customers with the same personal service that the individual chemist can if he sets out to do it properly, and in many details of our business the personal touch is the one which brings the customer back. "Stick at Nothing" says there are four co-operative stores in his neighbourhood, as well as private chemists, to serve a population of 20,000; I wish he had told us how many private chemists there were, because it has been estimated that it takes a population of 3,000 to support one pharmacy. I am inclined to be dubious about his suggestion to do the D. and P. work at home; if one is running a single-handed business or has only one assistant, then during the summer months it means constant after-hours work to compete with the quick services given and expected to-day. I have tried it and found that I could not keep it up, so I am now sending the work out, having two collections and deliveries daily. I agree with him in his remarks on the price of liquid paraffin. I wonder if "In the Neck" has tried the effect of having two packs of the quicker-selling lines, one the best quality at a good price and the other the store quality at the cut figure, not minding if it does not show much margin. This is really old advice which I got nearly twenty years ago out of the *C. & D.* "Opening a Pharmacy." It is a tip which has served me well, for I have always something with which to meet a grumbler. I consider we have nearly reached the limit of the number of pharmacies which can be supported in most districts, except in those still in process of development; any increase in the number will simply mean a return to the conditions under which many small men worked all day and part of the night, too, to pay expenses.—Faithfully yours,

OLDEN (8/6).

Miscellaneous Inquiries

When samples are sent particulars should be supplied to us as to their origin, what they are, what they are used for, and how. We do not undertake to analyse and report upon proprietary articles nor to publish supposed formulas for them.

Mac (10/66).—PRESCRIPTION PRICE.—The following is the correct method of pricing the prescription according to the *C. & D.* Costing System.

Tr. valerian ammon. ...	maxxv.	d.
Tr. sumbul ...	3ss.	12.0
Ammon. bromid. ...	grs. viij.	2.0
Syr. glycerophos. co. ...	5j.	12.0
Aquam ...	ad 3ss.	3.0
Mitte 3xij.		

Container ...	3.0
Fee ...	8.0

50.0

Charge 4s. 2d.

A. L. (6/58).—REMOVING WINDOW SLIPS.—The following are methods frequently used:—(1) Application of heat by means of an iron; (2) by means of knife; (3) soak the edges of the letters with glycerin or paraffin.

Legal Queries

T. J. M. (26/5).—Tinctura chloroformi et morphinae, B.P. 1885, comes within Part I of the Poisons Schedule, consequently all sales must be entered in the poison-book, which must be duly signed by the purchaser.

C. J. D. (8/6).—It would be an offence for your traveller to sell dutiable medicines from a van, since a medicine licence is granted solely in respect to a shop, house or place, and vans, stalls or other movable or non-rateable places of business are not licensed.

M. B. (1/6).—A dutiable "known, admitted and approved" remedy may be sold unstamped only by a chemist and druggist or an exempted person. If sold by any other person to whom the exemption does not extend, a medicine stamp must be affixed to the article prior to its sale. When unstamped dutiable "known, admitted and approved" remedies are received by a person to whom the exemption does not extend, they should be immediately stamped on taking into stock.

D. C. P. (30/4) had occasion to dismiss an assistant at the beginning of the year and the assistant is now with another firm in the same town. That firm is now using circulars, labels and wrappers practically identical in wording, size and colour with those that have for a long period been used by "D. C. P." What steps should he take to put a stop to this practice? [In our opinion, "D. C. P." might successfully bring an action for injunction against the firm on the ground of infringement of copyright and he might also recover damages if he can show that he has suffered damage in consequence of the infringement. An action for damages and an injunction might also be taken against the firm on the ground of "passing off," if it can be proved that customers have been deceived into thinking that the goods offered by the firm are the same as those sold by "D. C. P." In the first place, he should instruct a solicitor to write a letter to the firm threatening legal proceedings if the copying of the labels and wrappers is continued.]

W. J. R. (6/5).—We presume that the shopkeeper to whom you refer is not an exempted person within the meaning of the Medicine Stamp Acts. Consequently, he will not be entitled to sell "known, admitted and approved" remedies unstamped. Naturally, not being a chemist and druggist, it will be illegal for him to sell any article containing a scheduled poison. With regard to spirituous preparations, in consequence of the concession made by the Commissioners of Customs and Excise (*C. & D.*, December 28, 1929, p. 786), an ordinary shopkeeper may sell medicated spirituous preparations without holding an Excise licence provided:—(i) the preparations contain a medicinal substance in such proportions as, in the opinion of the Commissioners of Customs and Excise, gives them a distinct medicinal character and makes them unsuitable or too unpalatable for use as beverages; (ii) that the directions as to dose, etc., on the labels of the bottles or other containers indicate to the satisfaction of the Commissioners that the preparation is intended for use as a medicine and not as a beverage.

Retrospect of Fifty Years Ago

Reprinted from

"The Chemist and Druggist," June 15, 1881

Post Office Reforms

It is understood that a Bill will be introduced enabling the Post Office to begin next year with a six-penny tariff for telegrams. It is also hoped to commence the system of delivering parcels by post next October. A stamp at the minimum rate of 6d. is to be issued, and parcels up to 4lb. weight are to be accepted, the Post Office and the railways to share the amounts paid.



[Commenced C. & D., July 5, 1924]

Ulster Retail Drug Trade Association.—This Association was formed in the year 1903, under the title "Ulster Drug Trade Association," with the object of bringing retail chemists and druggists together in order that price cutting, which was very extensive, should be abolished. For some years the work was difficult, but eventually a larger membership was enrolled. In February, 1918, when prices were advancing and supplies short, several members thought the Association should be enlarged and reorganised to embrace all wholesale and retail drug houses; the Committee then revised the rules and objects of the Association. Meetings were held regularly and prices fixed. During 1919 a chemists' assistants' strike took place. An Employers' Federation was formed, and, after protracted negotiations, a unanimous settlement was made, based on a scale of hours and wages. Up to this period all the offices of the Society were honorary. It was felt, however, that a paid secretary should be appointed to devote his time to the increasing duties. In May 1920 Mr. W. J. Stevenson was appointed secretary, and he still holds this position. An arrangement was made that the Committee be composed of equal numbers of pharmaceutical chemists and registered druggists, and the president's term of office of one year be held alternatively by a pharmaceutical chemist and a registered druggist. This arrangement has worked admirably.

United Chemists' Association, Ltd.—A limited company formed in 1909 with a registered capital of £15,000, since increased to £250,000. The objects, as stated in the notice of registration, are "to carry on the business of manufacturing, analytical and consulting chemists and druggists, opticians, manufacturers of and dealers in proprietary medicines and articles, etc." The first subscribers and directors were Messrs. H. Miller, C. C. H. Cadge, A. E. Bolshaw, J. G. Jackson and L. M. Parry. Manufacturing was commenced in Sheffield; three years later the offices and works were transferred to Cheltenham, and eventually an adjoining site was acquired for extensions. Supplies of goods are confined to pharmacists who are in business on their own account and to businesses the chief interest in which is held by pharmacists. The managing director is Mr. Harold Miller.

Unit of Value.—The unit of value is the coin by which the value of all other coins is measured. For instance, in the United Kingdom the sovereign or pound sterling is the unit of value; in France, the franc; in Germany, the mark; in India, the rupee; in the United States the dollar, and so on.

Unmerchantable.—Goods are so described when they are in any way below the usual standard of their natural sound condition.

Upper-story Displays.—Retailers hold conflicting views upon the value of the "double-deck" shop-front, although with increasing traffic congestion, there are undoubtedly practical arguments in its favour. Originally, the first-story display window was introduced to "catch the eye" of the traveller on the upper deck of the passing vehicle, and, for shops near road-junctions, this newly-acquired display space certainly presented opportunities for effective advertising, if not always a medium for direct selling appeal, to the bored passenger. Then, with the growth of the idea, and the advent of better methods of illuminating window displays, the possibilities of appeal to shoppers on the other side of the road became apparent. Now that the carboy has

regained its popularity as a pharmacy symbol, and by the use of special lights can be adapted as a means of nocturnal publicity, there are excellent reasons for its installation as a means of public appeal in the first-floor window. The first-story display certainly presents a problem of its own. The swift appeal, the vivid portrayal of a seasonable line, the distinctive presentation of professional publicity (by means of the carboy, pestle and mortar, or pharmacy jars): these are the functions of the first-floor window. But the double-deck shop-front needs great care in treatment. There are streets in which the first-story window display is almost a necessity. There are others where the construction of a "double-deck" shop-front would be nothing short of a vulgarity. The modern practice in the construction of two-story shop-fronts is to have a bold surround taking in the windows on both street and first-floor level, or to introduce features which bring the two sets of windows into definite relation with each other and in harmony with the façade as a whole. A modification of the shop-front embracing two stories is the embodiment of the windows of the mezzanine floor into the over-transome design of the ground-floor windows.

Upset Price.—In auction sales the lowest price at which a vendor is willing that his property or goods should be started and sold if no higher bids can be obtained.

Uptown Warehouse.—A warehouse not situated by the waterside licensed by the Customs to store bonded or dutiable goods.

Uragoga and Cephælis are synonyms of the plant that yields *ipecacuanha* root. The drug is now referred to *Psychotria ipecacuanha*, Stokes.

Uranium.—Uranium, symbol U, is the heaviest of the elements, having an atomic weight 238.17 ($H=1.008$). It forms salts with acids, as do the other members of the group (vanadium, niobium, tantalum, etc.). Its hexa-fluoride UF_6 has the extraordinary character of its melting point being higher than its boiling point. Uranium trioxide, UO_3 , acts as an acid anhydride, forming the uranates, while the hydroxide, $UO_2(OH)_2$, can also function as a base, and its (OH) groups can be replaced by acid radicals. The remainder of the molecule (UO_2) is known as uranyl, and plays the part of a metallic radical forming a chloride, uranyl chloride, UO_2Cl_2 , and many other uranyl salts. Unlike the uranates, the uranyl compounds are very soluble. They possess a distinctive, brilliant and glittering greenish-yellow colour, and are strongly fluorescent. The fluorescence is easily visible in solution, and it is possible that the catalysing powers which the uranyl compounds exhibit in the presence of light are associated with this fluorescence. The reactions thus brought about are partly oxidising and partly hydrolytic, such as the breaking down of the polysaccharides, saponification of fats, and splitting off of ammonia from amino-acids. It is, however, in connection with radioactivity that uranium has attracted most scientific interest recently. Its compounds, as well as those of thorium, possess the power of blackening a photographic plate even when it is wrapped up in black paper. They discharge a charged electroscope, and cause a surface coated with hexagonal zinc sulphide to glow without equivalent external energy being supplied. They are thus themselves sources of energy, but produce the energy over so long a period that the accompanying changes can only be detected by the most delicate means. These properties were discovered by Becquerel in uranium compounds, and in thorium compounds by Schmidt and Madame Curie. The latter first isolated the most characteristic element of the group from uranium compounds, and assigned the name "radium" to it. Substances with marked radioactive properties can be isolated from natural uranium and thorium compounds by ordinary chemical operations. The emission of various rays causes the formation of bodies of slightly lower atomic weight. For example, by the loss of an α -particle, the atomic weight of uranium is reduced by four (the atomic weight of helium), and the resulting body is known as

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UX, of atomic weight 234.2. As the helium atoms which are expelled bear two positive charges, the residual body UX₁, with a loss of four units in atomic weight and two positive charges, changes its place in the periodic system, and its properties are now found to resemble those of thorium rather than those of uranium. The consequences of the emission of β -rays are quite different. As the electrons have no mass, the element does not lose atomic weight, but, owing to their negative charge, the effect on the valency of the element is opposite to that produced by the loss of the α -particles. The emission of β -rays gives a new element of the same atomic weight; thus UX₁ gives UX₂, which resembles tantalum in properties. (See also Radioactivity.)

Urea is of considerable importance as being the first organic substance produced by the living organism to be prepared by chemical synthesis in the laboratory. It is a crystalline compound excreted as a waste product in the urine of mammals, and is known also as carbamide, having the constitution CO(NH₂)₂. It forms long prisms melting at 132°, and is freely soluble in water and alcohol. It may be prepared artificially by the oxidation of potassium cyanide, interaction between the resulting cyanate and ammonium sulphate, and the conversion of the resulting ammonium cyanate into urea by the application of heat. It is used to a small extent in medicine, being suggested as a diuretic in gout and rheumatism. The artificial product finds some application in the manufacture of urea-formaldehyde resins, varnishes, dyestuffs and explosive mixtures. To an increasing extent, however, urea in granular form is being employed in agriculture, and experiments have shown it to be of use not only as a fertiliser, but as a feeding material. As a fertiliser, it is likely to become of considerable importance if the cost can be reduced to a competitive level. Its high nitrogen content makes freight charges less onerous, while its action in the soil is practically equivalent to the other nitrogenous fertilisers. Further, urea can safely be mixed with almost any other fertiliser.

Urea-Quinine Hydrochloride.—A double salt of urea and quinine, C₂₀H₂₄N₂O₂·HCl·CO(NH₂)₂·HCl·5H₂O, official in the U.S.P., which directs that it shall contain not less than 58 per cent. of anhydrous quinine. It occurs in white translucent prisms or as a powder, and has a bitter taste; its solubility is about 1 in 1 of water, and 1 in 2.5 of alcohol. Analytical tests for purity are given in the U.S.P. The principal use is as a local anaesthetic, administered hypodermically in doses of 3-5 c.c. of a 1-per-cent. solution. It is also the active ingredient of an ointment and a suppository, and has been applied locally in solution for throat affections.

Urethane, or ethyl carbamate, CO(HN₂)O.C₂H₅, is a mild hypnotic used to a small extent in medicine. It may be prepared by acting on urea nitrate with alcohol in excess, in a sealed tube at a temperature of 125°, for several hours. The resulting crystalline mass is dissolved in water and shaken out with ether. The residue from the ether solution is recrystallised from water. It forms colourless prisms melting at 48-50°. Derivatives of urethane, such as phenyl-urethane, form excellent means of identifying many of the alcohols, with which they form crystalline compounds.

Urginea.—*Urginea Scilla Steinh.* (*U. Maritima*, Baker), a liliaceous plant, bordering on the Mediterranean, is the source of the official squill. There are two varieties, the white and the red; the first has bulb-scales, which are colourless; in the second they have a roseate hue, but there are no botanical differences in the plants. The squill is a most ancient medicine. In Egypt it is sacred to the god Typhon, and at Pelusius a temple is dedicated to it; it is supposed to drive away evil spirits and is symbolical of perpetual generation. Squill was also known to the Greek physicians; Dioscorides prescribed it combined with vinegar and honey. The tunicated bulbs are pear-shaped, of the size of a man's fist, and some-

times larger, weighing 2 or 4 lb. each. The outer scales are dry and scarious and marked with parallel veins. Inside the scales are fleshy and juicy, thick in the middle, shining, and smooth on the surface. The bulbs are collected in August, when leafless, and are cut into transverse slices and dried in the sun. The dried portions are flexible, tough and translucent and of a pale yellow colour. They are brittle when thoroughly dried, but absorb moisture when exposed to the air. The drug contains mucilage and sharp crystals of calcium oxalate; the latter are probably the source of the irritation when slices of the fresh bulb are rubbed on the skin. The drug is prepared by peasants in the mountainous regions of Sicily; the bulbs are washed, the outer scales removed, and the fleshy portion sliced and dried. This is exported in sacks from Palermo and Catania. Squill is also exported in cases from Malta. The saccharine principle of the root is sinistrin, a substance allied to dextrin, but its solutions deviate the ray of polarised light to the left instead of to the right. The bitter principle has been examined by various chemists and called scillitin, or skulein. Merck (1879) separated scillipicrin soluble in water, scillitoxin insoluble in water but soluble in alcohol, and scillin, a crystalline substance soluble in boiling ether. Kapoczewski (1914) isolated scillitin and scillidiuretin; the former is an intensely bitter, amorphous glucoside, and probably the active principle. Buschmann (1920) isolated xanthoscillide in lemon-yellow crystals melting at 117-118° C., scillisterol and a phytosterol. Squill resembles digitalis in increasing the vigour of cardiac action. It is a powerful expectorant, diuretic and deobstruent, and is universally used in chronic bronchitis and in cough medicines. Squill has also become noted as a rat-poison. Experiments have shown that the lethal dose of scillitin is 1 mgm. per kilo injected subcutaneously into rats and guinea pigs, but powdered squill is more toxic than the isolated active principle. Coarse rye bread and squill baked together and then dried in small pieces is the composition of a German proprietary vermin killer.

The following are squill substitutes: *Urginea indica*, Kunth. The Indian squill, growing in sandy situations near the sea, has smaller bulbs than the European species, but they are considered to have the same medicinal properties. The bulbs are used in the medical stores of Bombay, Calcutta and Madras for making the official preparations of the drug, and they are recognised in the British Pharmacopœia of 1914. The roots are used by farriers in South India for relief of stranguity and in fevers occurring in horses. The Arabic names of the plant signify "sea onion" and "rat's onion," and the Persian name "wild onion." *U. altissima*, Baker, a plant of South Africa, is closely related to the squill and affords medicinal bulbs. *Crinum Asiaticum*, Lin., a plant of tropical Asia. According to the Pharmacopœia of India, 1868, the bulbs of this plant have been used in India as a substitute for squill. *Drimia ciliaris*, Jacq. The root of this South African plant is known as "itch bulb," and has emetic, diuretic and expectorant properties.

Uric Acid, C₅H₄N₄O₃, is a normal constituent of mammalian urine. It may be obtained from guano or from serpent's excrement, both of which are very rich in uric acid. It may be identified by the so-called murexide test. When a small quantity is mixed with a little nitric acid, and the mixture evaporated to dryness, a yellow residue is left which changes to violet on addition of ammonia. It has been suggested as a drug, but is probably inactive.

Urotropine.—See Hexamine.

Usance.—The time allowance by usage for currency of bills of exchange between any two countries. Sometimes foreign bills are drawn payable at one, two, or more usances.

Usury denotes an exorbitant rate of interest charged by the lender of money for its use by borrowers.

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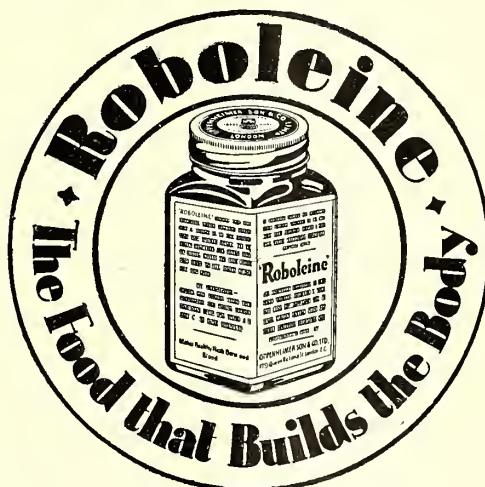
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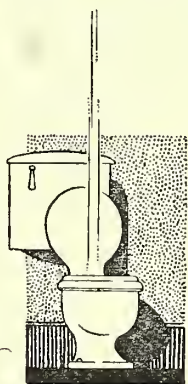
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Olive Oil Emulsion,
without malt - - 3/6
Original Golden Food 1/9
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Skin Food and Hair
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Attractive Containers. Booklets Free

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ASK FOR SAMPLE AND PRICES

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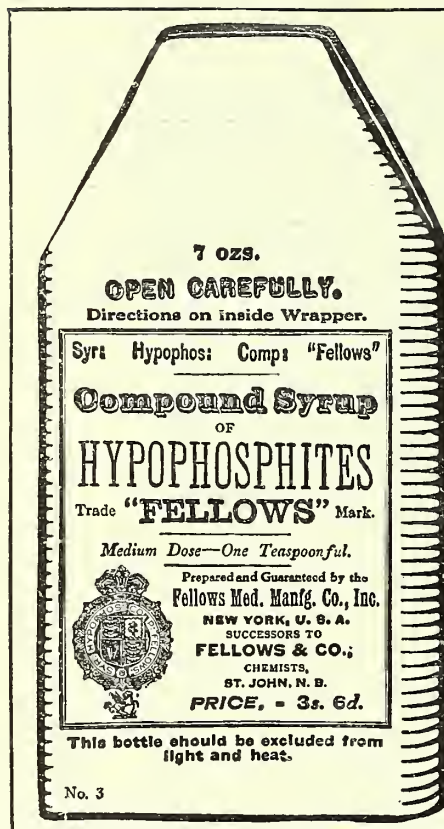
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COMPOUND SYRUP OF HYPOPHOSPHITES "FELLOWS"

TRADE-MARK

Rich in vital mineral salts, including calcium, and two dynamic ingredients, "FELLOWS" gives prompt results.

The good it does is quickly felt.

This explains why chemists always make friends by recommending it.

When a tonic is asked for, or indicated, explain that doctors have prescribed "FELLOWS" for more than sixty years, and that modern medical science approves its formula.

Check your stock today.

Your Wholesaler is ready to execute your order.

Specialists in the Manufacture —OF— TABLETS & CAPSULES



Compressed Tablets

Full range.
Variety of style.
Purest Ingredients.
Perfect finish.
Plain, Chocolate
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Customers'
"Own Name."

GELATINE CAPSULES

Machine made of perfect ovoid finish,
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CONTENTS GUARANTEED PURE.

Customers' formulas in Tablets or Capsules accurately prepared.
Enquiries solicited. Close prices to large buyers.

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EXTENSIVELY ADVERTISED TO THE MEDICAL PROFESSION

Importers: **BOXALL SMITH & CO.**
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AROCAN

Solutions, for Local Anæsthesia.

The Arocan series contain pure diethylamino-ethyl-p-aminobenzoate hydrochloride and adrenalin in various strengths for Regional, Spinal and Dental use

They are prepared by a method which ensures their stability in stock and as they are in themselves sufficiently antiseptic to inhibit the growth of contaminating organisms they may be used, safely, from rubber stoppered bottles.

A brochure giving full particulars and prices will be sent on request to:

EVANS SONS LESCHER & WEBB, Ltd.
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TWO DAILY SELLERS

£3 PARCELS NOW AVAILABLE

CHEMISTS and Druggists should note that £3 parcels for either BEECHAM'S PILLS or BEECHAM'S POWDERS, or assorted BEECHAM'S PILLS and BEECHAM'S POWDERS, can now be obtained direct or through their wholesalers. These £3 parcels carry the usual $2\frac{1}{2}\%$ discount and a further 5% discount for window display—carriage paid—Monthly account.

ADVERTISING. As a result of the increased and continuous advertising campaign in the National, Daily and Weekly Press supported by House-to-House distributions for the above products, it is in the interests of all Chemists and Druggists to hold adequate stocks to meet the anticipated increased demand.

Co-operate with us! Display Beecham's Pills and Beecham's Powders on your counter—in your window—about your shop, and complete the link between our advertising campaign and the consumer public.

ORDER NOW!

**BEECHAM'S
PILLS**

**BEECHAM'S
POWDERS**



BEECHAMS PILLS LTD.

CHESTER ROAD, MANCHESTER & ST. HELENS, LANCs.

Telephone { 1961 Trafford Park.
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ANNOUNCING 'NEOBOVININE 20'

brand compound of

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'NEOBOVININE 20,' the latest scientific treatment for all types of anæmia and blood impoverishment, is now being ethically introduced to the medical profession by the well-trained staff of 'Petrolagar' Laboratory Company's Representatives.

'NEOBOVININE 20' retails at 5s. 6d. per 6 ounce and 10s. per twelve ounce bottle. Doctors are prescribing it, therefore all chemists should stock it. Order from any Wholesaler.

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(Dr. Hill's Formula)

MEDICINAL SNUFF. ABSOLUTELY THE
FINEST REMEDY FOR CATARRH AND
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NEPENTHE.**THE SAFEST AND BEST PREPARATION OF OPIUM.**

The word "Nepenthe" is registered under the Trade Marks Act, and is our exclusive property. No substitute may be dispensed when "Nepenthe" is ordered in a prescription. "Nepenthe" comes within the regulations of the Dangerous Drugs Act, 1920.

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ROBUVAL

*Elixir Strontii
Bromid. et Valerian
Deodorat.*

AN EXTREMELY PALATABLE
CALMATIVE & NERVE SEDATIVE

8 OZ.
BOTTLES **3/6**

*Prepared and
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ROBERTS & CO.

Pharmaciens,

76, NEW BOND ST.,
LONDON, W.1,

and at PARIS.



The contents of
this display Box
can be replaced
separately by your
usual wholesaler.
P.A.T.A. terms.

Don't miss
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FOR
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It contains the
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Preparations and in
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Ointment is given you free.
You pay 3/9 for the com-
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One tin of Staniform Dusting Powder 1/3
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Two 1/- Bottles of Staniform Lotion 2/-

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There is a big
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which is con-
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fostered by
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"One Sale Makes Many"

BECAUSE it is a dependable product, active to the last drop, P., D. & Co. Peroxide brings customers back again for more. Such satisfied regular customers constitute a valuable business asset, especially as they are the kind that prefer quality to quantity.

Use this customer-holding and profit-making peroxide to *your* advantage. It is an excellent line to buy on the special terms available. Ask our representative for particulars, or write to us for them.

PARKE, DAVIS & COMPANY
50 Beak St., London, W.1

HYDROGEN PEROXIDE

SOLUTION
(PARKE, DAVIS & CO)

THE BRITISH FRUIT REMEDY

Not only British—but better, and yielding a higher profit to Chemists than most other advertised laxatives, Prunol deserves your full support. An important campaign, now proceeding, features a strong appeal to mothers and children. You should link up with this by displaying the Prunol Kiddie display cut-out. Printed in ten colours, this does not take up too much room on the counter or in the window, and is exceedingly effective. Write for this sales-help now.

Prunol Prune Jelly is obtainable from all wholesalers in 9d., 1/6, 2/11 and 6/6 sizes. Prunol Pastilles, 1/3.

FREE!

Bottle-wrappers are ever useful. Would you like a generous supply? Prunol wrappers are printed only on one side; the paper is good quality white-bond. Send a post-card to-day for a free, carriage-paid parcel.

PRUNOL

The GREAT FRUIT LAXATIVE

PRUNOL PRODUCTS LIMITED
21 COCKSPUR ST., LONDON, S.W.1

'Phone : Whitehall 9820

*The Clean
Disinfectant*

'SUPERLIN'

*adopted by Hospitals
and local Authorities*

*Write for prices and details to enable
you to tender for supplies. Supplied
in bulk and in various packages.*

WRIGLEY, PATERSON & CO. LTD.

Superlin Works, Isleworth, Middlesex

Memo :

RE-ORDER ZAM-BUK

Sole Proprietors : C. E. Fulford, Ltd., Carlton Hill, Leeds.

Ointment & Medicinal Soap

Iglodine.

THE SAFE AND PURE ANTISEPTIC,

*And its Kindred Preparations, are Dependable,
Quick-selling and Profitable to the Chemist.*

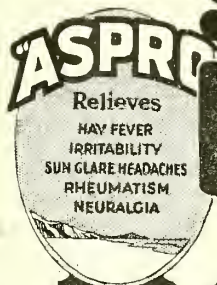
THEY SATISFY BUYERS AND BRING REPEAT ORDERS!

IGLODINE, the Ideal Home Healer, is Highly Recommended by the Medical Faculty, and Retailers at 10½d., 1/6 and 3/- per Bottle. **IGLODINE Specialities include — EMBROCATION, TOILET SOAP, OINTMENT, CREAM, THROAT TABLETS, SUPPOSITORIES, SHAVING STICK, PASTILLES, NASAL DOUCHE, SALICYLATED : Also FIRST-AID OUTFITS.**

*P.A.T.A. Photo-Litho Showcards. Window Display Scheme
Particulars and Prices from*

THE IGLODINE Co., Ltd., NEWCASTLE-ON-TYNE.

'ASPRO' SUMMER SALES PUSH



NEW WINDOW SHOW FOR SUMMER

15,000 RUBBER CASH MATS



FREE

WE ARE MAINTAINING THROUGHOUT THE SUMMER THE FULL VOLUME OF OUR WINTER ADVERTISING

NEWS THAT WILL INTEREST ALL CHEMISTS

50% increase in sales—that's the 'ASPRO' record for the last six months. Refreshing, isn't it, in these bad times, to hear of progress. We take this opportunity of thanking all chemists for their help and co-operation. It has made this success possible—working in conjunction with our sales-producing advertising campaigns. We believe that life is progressive—business is progressive—the whole world could be progressive when dominated by continuous action based on progressive methods. To prove it we are CONTINUING OUR SUMMER ADVERTISING on LAST WINTER'S FULL ADVERTISING SCHEDULE. Further, we have just received from the press one of the most artistic window shows yet. We are also issuing FREE—practical business helps in the way of rubber cash mats for your counter (see illustration). Both window show and cash mats (if you have not already received them) will be gladly sent free on your request.

"CHEMIST and DRUGGIST DIARY" COMPETITION PROVES THAT 'ASPRO' IS EASILY THE BEST SELLER

The unique competition organised by the "Chemist and Druggist" to ascertain various matters of interest to Chemists definitely proved by CHEMISTS' OWN VOTES that 'ASPRO' is easily the chemists' best seller. It is one of the lines which yield the chemist the most profit. So you see that when you display 'ASPRO' you co-operate in the sale of one of the most active and profitable lines in the world. THE MORE YOU DISPLAY 'ASPRO' THE MORE SALES YOU OBTAIN, because every window show connects up with our vast and continuous advertising.

'ASPRO' consists of the purest Acetyl Salicylic Acid that has ever been known to Medical Science, and its claims are based on its superiority.

Agents: GOLLIN & CO. PTY. LTD. ('Aspro' Dept.) SLOUGH, BUCKS

Telephone: SLOUGH 608

Made by ASPRO LTD., SLOUGH, ENGLAND.

No proprietary right is claimed in the method of manufacture or the formula.



DO NOT FORGET TO SEND A POST CARD TO-DAY FOR FREE WINDOW SHOW AND CASH MAT

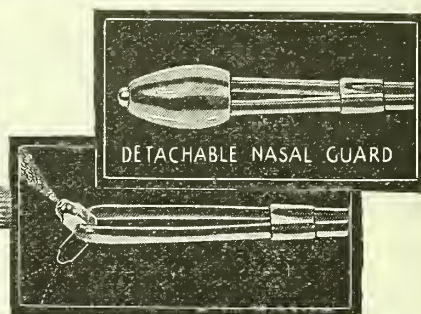
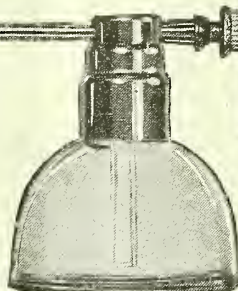
DeVilbiss

SPRAY N°15

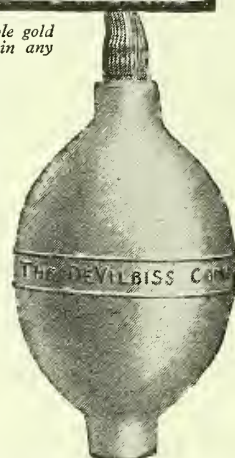
You can sell this beautifully finished and thoroughly efficient DeVILBISS Spray to your customers with confidence, because it is made with truly scientific precision and in strict conformity with the recommendations of medical science.

Display DeVILBISS Sprays conspicuously—they not only sell themselves, but also stimulate the sale of the solutions used in them.

DeVILBISS Sprays are widely prescribed by doctors—be in a position to meet the demand promptly.



Note the adjustable gold tip for spraying in any direction.



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CVS—24

INCRETONE, 6 OZ.

(G. W. CARNRICK CO.)

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A LIQUID ENDOCRINE TONIC

Now being extensively advertised to
the Medical profession.

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Obtainable through all wholesalers or direct
from the agents—

BROOKS & Warburton, Ltd.

232-240 VAUXHALL BRIDGE ROAD
LONDON, S.W.1

—FREE DISTRIBUTION TO CHEMISTS—

Introducing the **HARLEY DOUBLE-NOZZLE NASAL SPRAY**

Outfit complete with a supply of

HARLEY WHITE SNUFF GERM DESTROYER

For HAY FEVER, INFLUENZA, CATARRH, ASTHMA

SELLING PRICE 7/6. TRADE PRICE 4/6

Sample Outfit sent free on receipt of 6d for postage and packing

NOTICE.—Particulars of our unique publicity methods which must bring Chemists
New and Regular customers will be included with sample outfit.

The Harley Nasal Spray Co., 80-86 Regent St., London, W.1



CACHETS "FINOT"

(White or Coloured)

With inscriptions in any desired
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"A distinction all their own."—C. & D.
"Perfection of Cachets."—Lancet.

These Cachets are especially adapted for Headache, Neuralgia
and other powders.

COOPER SON & CO. LTD., 80 Gloucester Road, SOUTH KENSINGTON.
In 17 Sizes to fit the various types of Cachet Machines.

SIEVES & GAUZES

TESTING SIEVES Single &
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FINE MESHES UP TO 320

STEVENS & MANNING

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100%
UNFAILING STANDARD OF EFFICIENCY



A name that is relied upon—a name that stands for honest value and 100% efficiency—that's MARSHALL'S LYSOL. Relied upon by the medical profession because they know it is the original and its unequalled standard of quality never varies. You cannot fail to enhance the reputation of your business by pushing the original product—the best and only nationally advertised Lysol.



Ask for this
New Showcard.

LYSOL LTD.

LONDON S.W.20



SIMPKINS—CHEMISTS' CONFECTIONERS—SUPPLY CHEMISTS ONLY**SPECIALISTS IN
BARLEY SUGAR**

as Recommended by the Medical Profession

**BRIMSTONE & TREACLE
STICKS**

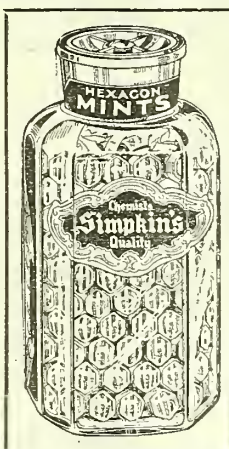
Flowers of Sulphur casing and Treacle Toffee centre. The Old Remedy in a palatable form Both the above packed in Popular 2d. sticks

HEXAGON MINTS

Famed for Unique Display and Flavour

**SUMMER SPECIALITY
HEXAGON (Glycerine) FRUITS**Genuine Fruit Centres
Attractively packed in Rainbow DesignWrite for Price List to the PIONEERS of the Most
Attractive Chemists' Confectionery ever manufactured

For Durham, North Yorks and Northumberland, T. SWALES, Butts Court, LEEDS

NO APPREHENSION that OTHER TRADES are sold. This fact is appreciated, so that **3,000 Chemists' Shops are stocked** with SIMPKIN'S PRODUCTS, mainly in the Midlands and the North.

Try a SAMPLE Display Bottle of each line

These 4 Bottles COST £1 17 6**PROFIT £1 2 6**

Subject to 2½% Cash Discount, varying to 12½% on 20 Bottle Orders

POPULAR PRICE - 6d. per qr. loose

Also packed in 1/- and 1/3 bottles

A. L. SIMPKIN & CO., Ltd.

Chemists' Confectioners

Carfield Works, Sedan St., SHEFFIELD

OLIVE OIL

in barrels or tins. We can quote to best advantage. Enquiries solicited.

PHONE: ROYAL 1754 & 2929.

TELEGRAMS: "CHOICENESS, BILGATE, LONDON"

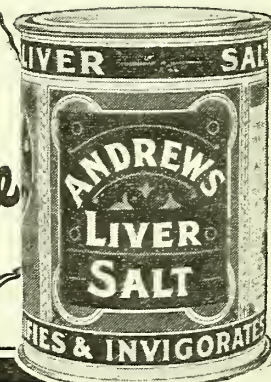
ESTAB. 1842

Genuine Pure Provence
and B.P. Grades——**John F. Seyfried & Sons, Ltd.****71, EASTCHEAP, LONDON, E.C.3****Its increasing
popularity means
increased profits**

Every week sees an ever-increasing demand for Icefoam, for everyone who buys it once goes on buying it. This delicious lemon drink with the delicate creamy foam is a certain profit-maker, so order plenty of stocks for plentiful sales right through the season.

**Icefoam**
FIRST FOR THIRST
MOST REFRESHING
& DELICIOUS
most best friend

P. W. Hampshire & Co. (1927) Ltd. Sunnydale Works, Derby.

Caseinfor Invalid Foods &
Pharmaceutical Purposes**Guesdon & Co.,**WIRES: "NODSEUG
TOOLEY
LONDON."
PHONE: HOP 257817, Tooley Street,
London, S.E.1.**The Saline
with the
largest sale**

Evidence Mothers like—
Firm flesh, dense bone
show how Baby is
nourished by
LACTOGEN



One customer brings another—when you stock Lactogen—the dried milk food. Mothers talk together—they compare notes. Firm flesh, sturdy bone, show how Lactogen nourishes Baby.

That's the sort of evidence Mothers believe. The fine sturdy babies Lactogen produces are the finest and most convincing Lactogen advertisements—living, laughing, happy, healthy, proof that Lactogen is the better milk for babies.

2/9
 per tin P.A.T.A.

Send to-day for full particulars and terms to Lactogen Bureau (Dept. AZ27), Nestlé and Anglo-Swiss Condensed Milk Co., 6 and 8, Eastcheap, E.C.3.

LACTOGEN
 REGD. TRADE MARK
 BETTER MILK FOR BABIES

Petroleum Jelly

White, Yellow, Amber,
& Ruby Red, for all
Pharmaceutical and
Veterinary purposes

MEADE-KING, ROBINSON & CO., LTD.

22 Water Street LIVERPOOL.	523 Salisbury Hse. Finsbury Circus LONDON.	Deansgate Arcade MANCHESTER.	Martineau Street BIRMINGHAM.	Wellington Chambers LEEDS.
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G. E. THURLEY & SON

Specialists in Liquid Paraffin

UNITY WORKS, LATIMER ROAD, LONDON, E.7

Telephone : Maryland 4686

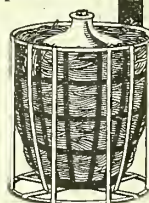
DISTILLED WATER in perfect condition

from our own stills. Supplies sent daily to Chemists in all parts. Immediate dispatch. We solicit your enquiries for dry-salteries generally. Obtain your supplies of Olive Oil, Camphorated Oil B.P. and Cotton Oil B.P.C. Grades from our large stocks.

**FRANCIS F. FOX
AND COMPANY LIMITED**
BRISTOL & BIRMINGHAM

Established over 100 years

2



BEE-HIVE

TRADE



MARK

REGISTERED FOR OUR
WELL-KNOWN BRANDS
OF CERESINE WAXES.

CERESINE WAX

WHITE BLEACHED CARNAUBA WAX VARIOUS GRADES
AND RESIDUE
BEESWAX WHITE, YELLOW AND COMPOSITION PARAFFIN WAX ALL MELTING
POINTS
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POTH, HILLE & CO., LTD.,

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*Works at
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PETROLEUM JELLIES

WHITE, LEMON, YELLOW, AMBER, RED, GREEN.

WHITE & COLOURED OILS

YELLOW, GREEN, RED FOR BRILLIANTINE, etc.

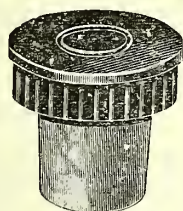
LIQUID PARAFFINCOLOURLESS, TASTELESS, ODOURLESS.
ALL SPECIFIC GRAVITIES.

B.P. AND TECHNICAL QUALITIES

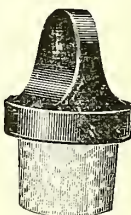
*Wholesale Trade only.***STERNS LTD.**

Royal London House, Finsbury Sq., London, England

Telegrams: "CENTUMVIR, TELEW, LONDON."

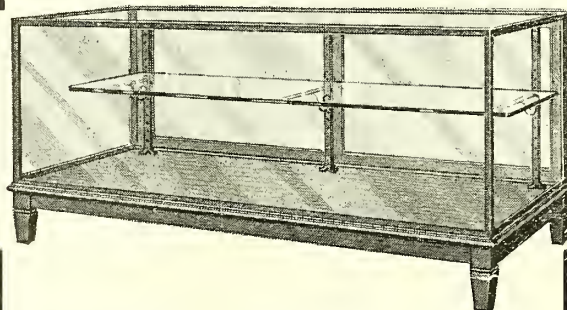
**STOPPERS**200 Varieties
Any Colour.

A suitable Composition Stopper will enhance the selling value of your package. Let us fit your Bottles and quote you.

**T. WEBSTER & Co., Ltd.**

Telephone: Mountview 0952

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**GLASS COUNTERS
BRING MORE TRADE**

No. G.S.F. 2920. A soundly constructed Display and Serving Counter made in our own works at Holloway Road—6 ft. x 3 ft. x 2 ft. glazed new $\frac{1}{4}$ " drawn plate glass top, front, and ends. Clear glass sliding doors at back. Interior fitted 1 row of shelves 12" wide, brown bronze bars and brackets.

DEFERRED TERMS

An initial payment of 18/10 secures this counter, and 11 further equal monthly payments of the same amount make it your own complete property.

£10-15-0

Cash Price. Ex. Works.

Send for our New List No. C.D.1260.

DUDLEY & COMPANY, LIMITED

451 HOLLOWAY ROAD, LONDON, N.7

City Showrooms: 65-66 FORE STREET, E.C.

**THE PREMIER
CHEMISTS' SHOPFITTERS***Specialists in Design and Manufacture of
CHEMISTS' SHOPFRONTS & FITTINGS*

Established over half a century.

SHOW-CASES*For Immediate Dispatch***H. MILLS & SONS, LTD.**

163-5 OLD ST., LONDON, E.C.1.

Medicinal
Liquid Paraffin B.P.

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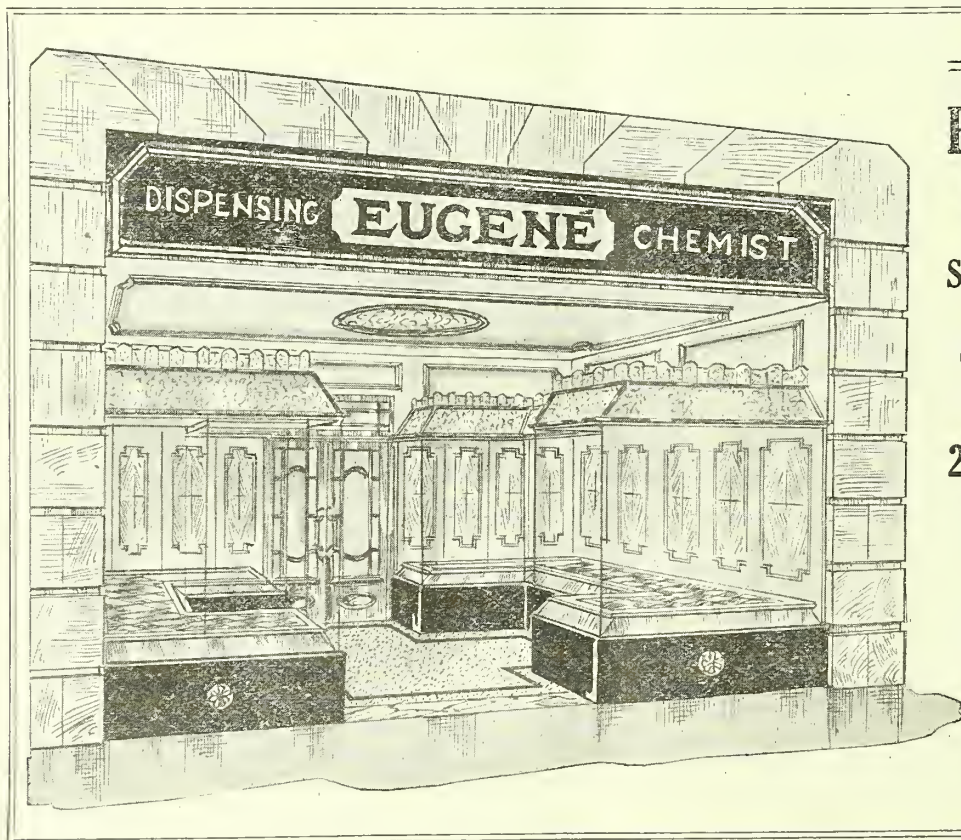
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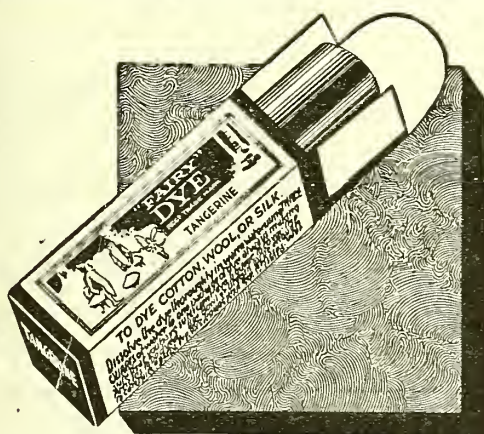
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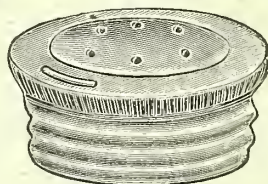
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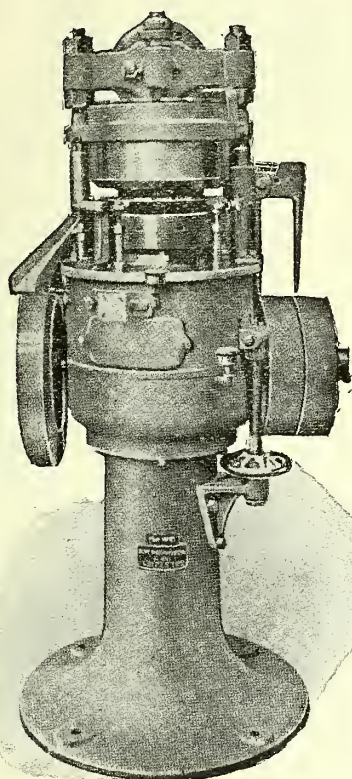
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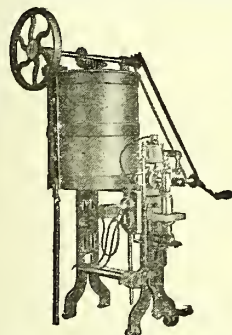
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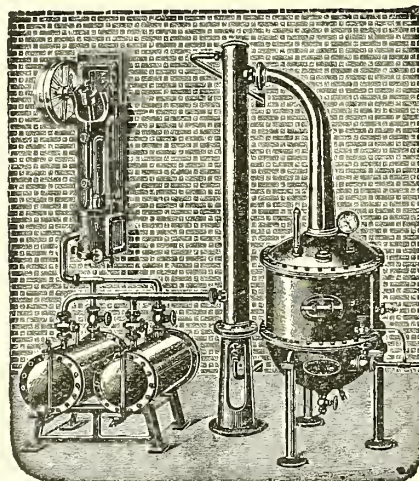
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JUNE 13, 1931

This Supplement is inserted in every copy of The Chemist & Druggist.

THE CHEMIST AND DRUGGIST SUPPLEMENT

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2.—SOUTH LONDON.—General Retail and Dispensing Business, with N.H.I. and Kodak Agency, situate in busy main road; returns approximately £5,000 per annum, of which about £800 is from N.H.I.; large double-fronted shop, very well fitted and fully stocked; long lease at reasonable rental; further details on application.

3.—LONDON, N. (Suburban).—Good middle-class Business, with Optical connection; returns £2,100 last year, plus £350 from Optics; net profit £750; double-fronted shop; stock and fixtures worth about £800; rent and rates £90; long lease; price £1,600, or valuation terms entertained.

4.—GREENWICH.—General Retail Business, with Kodak Agency; N.H.I. scripts about 350 monthly; returns £1,500 per annum; income tax paid on £480; single-fronted shop; good house; electric light; rent £60; valuation terms entertained; vendor having purchased another business must sell quickly; price about £800.

5.—MIDDLESEX (Distant Suburb).—Good-class Retail and Dispensing Business; returns £1,500 per annum; net rent, which includes large flat over shop and garage, £60 per annum; property may be purchased or lease will be granted; price £800.

6.—LONDON, S.E.—Light Cash Retail Business, with N.H.I.; turnover £1,050; net profit £334; single-fronted shop; stock and fixtures about £260; rent £35; sub-let 10s. weekly; 16 years' lease; price £450, or offer.

7.—SOUTH-WEST COUNTRY.—General Retail Business, with Kodak Agency and N.H.I.; returns exceed £2,100; average net profit £500; double-fronted shop, well fitted and stocked; rent £60; held on lease; terms, value of stock and fixtures, plus £250 goodwill.

8.—BRENTWOOD (Within Easy Distance of).—General Retail and Dispensing, with Kodak Agency; returns at the rate of £1,200 per annum; double-fronted shop; large house; rent £33 per annum; stock and fixtures worth £650; price asked £900.

9.—EAST COAST.—Light Retail Business, with Kodak Agency; returns for current year £900, with three of the best months (season) still to go; large modern shop; rent £70; rates about £20; long lease; price about £900.

10.—GREAT WESTERN MAIN LINE (Few Miles from London).—Good-class Retail and Dispensing Business; returns under management last year about £1,400; stock and fixtures worth about £600; rent £100; sub-let £65; held on renewable lease; price £900, or offer.

11.—GLOUCESTERSHIRE.—Good-class Dispensing Business, with scope for Photographic; returns about £1,500 per annum; net profit about £400; well-fitted corner shop in residential area; good stock; large house; price of business about £800; property must also be purchased.

12.—SOUTH COAST.—Retail and Dispensing Business; returns last year £2,766; rent £73 per annum; held on renewable lease; shop well stocked; vendor would probably consider valuation of stock and fixtures, plus a sum for goodwill.

13.—BOURNEMOUTH.—Good-class Retail Business, with Kodak Agency; returns 1930 approached £1,400, with scope for increase under energetic management; very good modern house; stock worth between £300 and £400, and fixtures about £200; price to include business and property £2,200; no doubt a lease would be granted if required.

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LONDON, E. (main road).—N.H.I. and Counter approximately £20; Photography increases this from now onwards by 25 to £10 weekly; big shop; small flat above; lease 20 years; rent £120; Kodak Agency; stock approximately £400; ill-health reason for disposal; best offer above agreed stock value secures. 165/2, Office of this Paper.

LONDON, EAST END.—Old-established Chemist's Business, important main road, by bus and tram stop; N.H.I.; good fittings and fixtures and excellent living accommodation; plenty of scope for smart man; price for lease, goodwill, stock and fixtures, £300. P.C.B. 52/25, Office of this Paper.

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MANCHESTER.—Chemist Cash Retail Business; good working-class district, main road; Kodak, Ucal Agencies; returns exceed £2,000, increasing; good profits; accounts audited; price £1,350. 167/1, Office of this Paper.

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PRESTON.—Newly-established Chemist's Business; main street; high-class Toilet, Perfumery and Photographic; large shop; seven stock or living rooms; price stock, fixtures, fittings and small ingoing. Dunn, Chemist, 1 Queen's Buildings, Fishergate, Preston.

SOUTH-EAST LONDON.—Old-established main road Business; nicely fitted and with good living accommodation; rent only £50 per annum on long lease; rates low; fine opportunity for qualified man; reduced price £240 S.A.V. 157/15, Office of this Paper.

SOUTHEND-ON-SEA.—Drug Stores, Chemist's Sundries Business; new growing main road district; large estate near by; no chemists in neighbourhood; fine opportunity for qualified man; smartly fitted shop; increasing trade; nice modern house and garden; any lease granted, owner's own freehold; accept £450, including large stock. Recommended, Hodgins, 11 Clarence Street, Southend. Phone 3617.

WOLVERHAMPTON DISTRICT.—Drug and Photographic Stores, lock-up, or with living accommodation; takings average £14 weekly; low rent; new lease; suit newly qualified; price for quick sale £300, including stock, £200. Apply 166/34, Office of this Paper.

DRUG and Photographic Stores; double-fronted shop; three rooms, kitchen, scullery, garden; side and back entrance; suit qualified or unqualified; great scope; rent 16s. 3d. weekly; inclusive; lease granted; £150, s.a.v., or near offer; would entertain partner. F. Lorne, Pharmacy, 37 Lennox Road, Walthamstow, E.17.

FOR Sale, price £300 or offer, small old-established Manufacturing Chemist's Business; several Proprietary lines; advanced age reason for selling; in same hands 45 years; good opportunity for energetic man; some knowledge of chemicals required; S.E. London; good living accommodation if required. Letters to "M. H.," P.C.B. 51/32, Office of this Paper.

GRAND opportunity for young Chemist with small capital to acquire a neglected Business; good nucleus and plenty of scope for worker; beautifully fitted and fairly stocked; modern double-fronted, lock-up shop; main road; lease at moderate inclusive rental; Post Office attached; veritable gift, £350 everything, offer. Garner, 557 Lordship Lane, Dulwich, S.E.

LOCK-UP Shop in thickly populated south-east suburb; rent £68, sub-let £75; N.H.I., recently started, rapidly increasing; plenty of scope; takings about £23; stock over £300; lease 12½ years, renewable; all at £500. 167/13, Office of this Paper.

NAVAL town, South of England, beautifully fitted large shop, doing £22 10s. weekly; net rent £3 yearly; stock (about £400) and fittings (new) at valuation. P.C.B. 52/21, Office of this Paper.

OLD-ESTABLISHED Business, with living accommodation, near East Coast; rent £75; on main road near docks; smart qualified man could greatly increase turnover with N.H.I.; no opposition; price £250. 167/36, Office of this Paper.

PROPERTY and Business of Chemist and Druggist for Sale. The Subscribers are prepared to receive offers for the property and long-established business in the main street of Alloa, carried on there. Full particulars on application to Ewing & Cuthbert, Solicitors, Alloa.

£500 OR NEAREST.—Nottingham. High-class Pharmacy and Photographic; established 18½ years; main thoroughfare; splendid opportunity for M.P.S.; qualified could more than double turnover; splendid living accommodation; low rent. 165/26, Office of this Paper.

APPRENTICES.

CHEMIST'S son, 18, leaving school end of July, desires Apprenticeship; Cornwall or Devon preferred. John Nicholls, St. Columb.

FINANCIAL.

£10,000 WANTED to develop sales on a Proprietary Article now on the market; present output between 200 and 300 gross a year, giving a profit of 250 per cent. without advertisement; all principal stores stock; all London and provincial houses listed and stock; cause of relinquishing management, proprietor seriously ill; formation of company or purchase outright entertained on reasonable terms. 155/39, Office of this Paper.

AGENCIES.

GLASGOW.—Agent, with central showroom and office, desirous of additional line suitable for Chemists and Hairdressers; excellent connection with best houses in Scotland, and large business assured the right lines; first-class references can be given. 166/12, Office of this Paper.

WHOLESALE Jeweller and Fancy Goods Merchant, territory covered, all Scotland, four Northern Counties England and Ulster, established connection with Chemists for razor blades, would like Agency for side line; Proprietary goods preferred. Apply 164/36, Office of this Paper.

PREMISES FOR SALE.

MATLOCK.—Villa Residence, well built, comfortable, pleasantly situated, sunny aspect, select district (near bus, station 10 minutes); freehold; no chief; 3 bedrooms, bathroom, and conveniences; well fitted and decorated throughout; small nicely laid-out garden; £660; bargain; vacant possession. Marsden, Chemist, Cromford.

OWNERS of Proprietary, with space to spare in convenient premises near London, invite correspondence with small Manufacturer, (a) working arrangement with object of reducing overhead charges, (b) sale of premises, or would consider sale of premises and business. 165/12, Office of this Paper.

PATENTS.

"AN Improved Process for Working Up Fluorides Containing Silicic Acid." The owners of British Patent No. 271,816 are willing to enter into working arrangements for exploitation of the same in Great Britain. Particulars obtainable from Technical Records, Ltd., 59-60 Lincoln's Inn Fields, London, W.C.2.

PARTNERSHIPS.

QUALIFIED Pharmacist, age 38, West-End, City and suburban experience, "a real live wire," desires Partnership in good going business, any class, or would purchase on easy terms; capital available £500. P.C.B. 52/20, Office of this Paper.

SALES BY AUCTION

Removed from Sloane Street for Sale Convenience.
THE SALE ROOMS, 5 LITTLE BRITAIN
(close to G.P.O.), E.C.

First-class **CHEMIST'S SHOPFITTINGS**, by Sage & Co., etc., including handsome 12ft. Wall Showcase, with cupboards under; 10ft. mahogany Drug Run, with 32 drawers; Dispensing Screens, Glass Counters, Mirrors, Perfumery Showcases, Silent Salesmen, Tills, Chairs, Office Furniture, Typewriters, etc.

B. NORMAN & SON will Sell by Auction at their Sale Rooms, as above, **WEDNESDAY NEXT**, at One o'clock. On View Day Prior. Catalogues on application.

We desire particularly to draw the attention of Colonial and Foreign Subscribers to the fact that in cases where they require partners, agents or assistants, or wish to sell their businesses, an Advertisement in this Supplement, placed in every copy of "The Chemist and Druggist," should be the readiest means of helping them to attain their object. The tariff for such announcements is given under the appropriate headings in the Supplement. Instructions and remittances can be sent to us direct or through the advertisers' correspondents in this country.

SITUATIONS OPEN.

RETAIL (HOME).

6s. for 40 words or less; 6d. for every additional 10 words or less, prepaid. (Box No., 1s. extra.)

BIRMINGHAM.—Required, young, qualified man, two months' engagement, July and August; salary £4 weekly. Write, stating full particulars, experience, and references, etc., 165/15, Office of this Paper.

CORNWALL.—Chemist-Optician (J.C.Q.O.) required. Apply, stating salary and particulars, to 166/32, Office of this Paper.

KENT COAST.—Wanted, at once, a smart Assistant, about 25, for good-class Retail and Dispensing, with Photographic. Full particulars of age, height, experience, and salary required, with photo (to be returned). 167/33, Office of this Paper.

KINGSTON, SURREY.—Unqualified male Assistant, about 25, wanted immediately; used to quick Counter trade, Window-dressing and Dispensing. Written-applications only, with full particulars of experience and salary required, to "Advertiser," Garth Cottage, Thorhill Road, Thames Ditton, Surrey.

LONDON, N.W.—Assistant, unqualified, male, age 26 or over; must be capable and reliable Dispenser; permanency for right man. Apply, stating full particulars, to 166/17, Office of this Paper.

LONDON, W.1.—Qualified Assistant for high-class West-End business. Full particulars of experience and salary required to 167/12, Office of this Paper.

LONDON.—Manager for middle-class quick cash trade. Apply, enclosing photo if possible, giving full particulars of experience, stating age, height, salary required and when at liberty, 187/646, Office of this Paper.

MANCHESTER.—Young qualified Assistant, also qualified Locum, to commence in July; good Counter, Dispensing and Photographic experience; applications not replied to in four days respectfully declined. Particulars and salary required to "Gentian," c/o Messrs. J. Woolley, Sons & Co., Ltd., Victoria Bridge, Manchester.

MANCHESTER.—Smart, qualified, married Manager required; must be keen Salesman and good Window-dresser; suburban business with house attached; excellent prospects, with salary and commission. Give full particulars of age, experience, and when at liberty to 165/241, Office of this Paper.

MANCHESTER.—Young, qualified Assistant wanted; middle-class trade; Photographic and N.H.I. experience essential. Give full particulars in first letter; outdoors. 167/38, Office of this Paper.

NORTH STAFFORDSHIRE ROYAL INFIRMARY, Stoke-on-Trent.—Wanted, Assistant Dispenser; lady (Chemist and Druggist); non-resident. State salary required. Apply to undersigned, stating qualifications, experience, and age, accompanied by two copies of recent testimonials, W. Stevenson, Secretary and House Governor.

NORWICH (near).—Qualified Manager wanted immediately for small country town; good Salesman essential; must have had previous experience of small market town; good prospects. State age, experience, when free, salary required. 165/24, Office of this Paper.

SHEFFIELD.—Immediately, qualified, 26-30, for Counter; knowledge Photography essential; outdoors; no Sunday duty; cash business. Please give full particulars (letters only), stating age, height, salary required, when disengaged, references, and enclose photo. H. G. Williams, 118 The Moor.

SUSSEX COAST.—Chemist-Optician, registered J.C.Q.O., required at once; must be capable Refractionist and good Salesman; Pharmaceutical qualification not necessary; temporary or permanent. Enclose photo and fullest particulars of experience, age, height and salary required, etc., to 168/13, Office of this Paper.

WEST END.—Wanted, young man, unqualified, honest, sober, good Salesman, and thoroughly reliable; must be well recommended; alternate late weeks (2.30-11), alternate Sundays (2-8). Apply, stating full particulars and salary required, with photo if possible, to "R. D.," P.C.B. 52/11, Office of this Paper.

ASSISTANT (unqualified) for large Midland city; must be smart Window-dresser and keen Salesman; excellent prospects; only first-class men of exceptional experience need apply. Particulars of age, experience, salary, and when free to 165/240, Office of this Paper.

CAPABLE Assistant required for season. State age, height, and salary required. Teunon, Chemist, Western Road, Littlehampton.

GENTLEMANLY qualified Assistant for good-class business; must be good Window-dresser, smart Salesman, and possess thorough knowledge of Photography. Apply, with full particulars of age, height, experience, references, and salary required. 166/24, Office of this Paper.

IMPROVER or Junior, 18 to 20; either sex; Welsh preferred, not essential; moderate salary to commence; must be reliable and trustworthy. Full particulars, age, height, experience, salary expected; enclose recent photograph, to be returned. "Chemist-Optician," 168/3, Office of this Paper.

JUNIOR (age about 24) wanted from July 6 for season trade for about two months in seaside town; must have good knowledge Photography and be well used to quick Counter trade. Write, with full particulars, 165/39, Office of this Paper.

LADY Junior or Improver, good Counter-hand, for Light Retail and Dispensing business, with Photographics. State age, height, experience and salary required, and enclose photo, to W. E. Tanner, Chemist, Chingford, London, E.4.

LADY Assistant required to develop Toilet Department; must have sound knowledge Toilet Requisites and Window-dressing. Send full particulars of experience, copies of references, state height, age, and salary required. If possible enclose photograph, to be returned. L. H. Lester, 2 Market Place, Nuneaton, Warwickshire.

LADY, qualified, for West London suburb. State when free, salary required. P.C.B. 52/15, Office of this Paper.

LADY, qualified, wanted shortly for good-class business in Bradford; smart Saleswoman; experience Toilet, Photographic, etc., an advantage; commence £3 10s. State age, height, and if possible enclose photograph (which will be returned) to 187/649, Office of this Paper.

LOCUM.—Dispenser required, August 9 to 25 inclusive; Doctor's Surgery. Apply details to 167/25, Office of this Paper.

MANAGER, qualified, to take sole charge of high-class Dispensing and Prescribing business, with a view to early succession, in Midlands; will be required to invest or show capital available; good living accommodation; wonderful opportunity for suitable man. Full details to 166/37, Office of this Paper.

MANAGER for Hull (qualified) for July 1st. Apply, stating age, experience and fullest details in first instance, 187/648, Office of this Paper.

PERFUMERY AND TOILET REQUISITES.—A young lady, aged between 20 and 30, required for large provincial store; exceptional opportunity for keen, willing Assistant with Drug Store training; Arden schooling an advantage. Apply, by letter, to 187/650, Office of this Paper. Do not send testimonials or photograph, as interviews will be arranged.

QUALIFIED lady or gentleman wanted immediately; permanency; must bear excellent references, with Optical experience preferred. "Pharmacist," c/o Oldfield, Pattinson & Co., New Bridge Street, Manchester.

QUALIFIED Assistant (male), young, for middle-class business in East Anglian town. Full particulars in first letter, at once, to 165/28, Office of this Paper.

QUALIFIED man required for London. Write, with full particulars as to previous experience, age, salary, etc., to 168/4, Office of this Paper.

QUALIFIED and experienced Assistant, in good-class Dispensing and Retail business, with Optics and Photographics; good Salesman seeking progressive permanency preferred; 25 to 40. Applications (in confidence) first letter, stating age, height, summary of previous experience, married or single, and salary required, to "Fides," 166/29, Office of this Paper.

QUALIFIED Assistant required. Apply, with usual particulars, stating when disengaged, wages required, and enclosing copies of recent references; no stamped envelopes or photographs. R. H. Kelynack, Chemist, 144 Queen's Road, Hastings.

QUALIFIED Dispenser wanted for three weeks' Locum, August 17 to September 5, inclusive; good reference essential. Apply, with full particulars, to A. H. Price, Chemist, 2 Guildford Road, Woking, Surrey.

QUALIFIED Chemist required as Superintendent; West London business; engagement under agreement, with salary; applicant will be required to invest £200 as security. Write, giving usual particulars, to P.C.B. 52/14, Office of this Paper.

QUALIFIED Assistant (male), capable of taking full charge during periodic absence of principal; light General, Photographic and Toilet; high-class trade; nice shop; Lincolnshire market town. Photo, references, and full particulars. 167/19, Office of this Paper.

QUALIFIED Manager, about 30, for July 6. Full particulars to Adams, 72 Camp Hill, Birmingham.

RELIEF Manager, qualified, required in Lancashire district; must be smart and keen Counterman; permanency for suitable man. State age, previous experience, salary required, and when free to 165/242, Office of this Paper.

REQUIRED, qualified Assistant Dispenser (male); previous Hospital experience essential; commencing salary £220 per annum; hours 9 a.m.-6 p.m. Apply to "Pharmacist," West London Hospital, Hammersmith, W.6.

THE applications to our recent advertisement not acknowledged in a few days are respectfully declined with thanks. The Prosser Roberts Co., 13 Church Street, Camberwell.

WANTED, lady Dispenser-Book-keeper by medical partnership (three Doctors); seaside town on East Coast. Apply, stating experience, wages, references, etc., to 159/17, Office of this Paper.

WANTED, reliable Junior Assistant for good country business end June; easy hours. Give particulars of age, experience, salary, if qualified. F. Larder, Loddon, near Norwich.

WHOLESALE.

HIGH-CLASS Packed Goods House, with well-established connection, about to launch new departure, require exclusive services of several experienced Salesmen on commission basis; territory allocated to each radius of 3 months' journey, with full benefits on all business accruing from ground; applicants must possess motor car and give fullest particulars, with recent photograph, first letter; interview essential before engagement; fine constructive opportunity for enterprising and energetic men. Reply 187/647, Office of this Paper.

LIVERPOOL AND DISTRICT.—Traveller required to represent a Manchester Druggist Sundries House; must have practical experience and sound connection. Give full particulars as to age, remuneration and references. Apply 166/14, Office of this Paper.

LONDON, W.C.—Fully-qualified all-round Chemist (lady) required to assist in small manufacturing business and generally. Replies should state age, experience and salary required. 166/5, Office of this Paper.

MANUFACTURING firm requires experienced Representatives, carrying other lines, calling on Hairdressers, Chemists, Stores and Wholesalers, for their bulk and packed lines, Toilet and Perfumery; smart packs, good quality, keen prices; commission only, which will be liberal. State ground covered and full particulars. 187/644, Office of this Paper.

MANUFACTURERS of high-class Toilet Preparations require Representatives calling on Chemists and Stores to introduce profitable side-line on liberal commission basis; territories allotted. Gajardo, 93 Worship Street, E.C.2.

OLD-ESTABLISHED firm of Wholesale Druggists and Manufacturing Chemists have two positions vacant for a resident Agent calling on Chemists and Hairdressers; one to cover the whole of Scotland, the other for London and Suburbs; the agency is for the sale of two well-known Proprietary lines, and the position will only be considered for those who have a sound connection and can give time to its development; commission basis. 166/25, Office of this Paper.

REPRESENTATIVE required now, calling on Chemists in London and environs, for new line with wide appeal which has had welcome reception where already introduced; commission arrangement only. Write, with particulars of territory covered, etc., P.C.B. 51/12 Office of this Paper.

PHOTOGRAPHS, TESTIMONIALS, &c.

When answering advertisements in this section applicants are strongly advised not to send (unless specially requested) ORIGINAL TESTIMONIALS or VALUABLE PHOTOGRAPHS. As can be readily understood, when an advertiser receives from 60 to 100 replies the task of returning photographs, testimonials, &c., is one of some difficulty.

REPRESENTATIVE required, with good connection Retail Chemists, by Continental makers; Toothbrushes, excellent side line; commission terms. Write full details Box 4141, Frost-Smith, Advertising, 64 Finsbury Pavement, E.C.2.

REPRESENTATIVE.—Old-established Wholesale Druggists require Traveller for town and suburbs; must have entrée to and connection with Medical Practitioners, Chemists and Institutions; liberal salary and commission to a first-class man who can guarantee reasonable turnover in everyday requirements and introduce a speciality. Apply, with full particulars as to age, experience, and remuneration expected, to 187/643, Office of this Paper.

REPRESENTATIVE wanted for Midlands (radius round Birmingham); large established connection with Hairdressers, Beauty Saloons, Stores and Chemists strictly essential; must be able to influence sales of general, high-class, popular-priced Toiletory lines in bulk and cartoned; guaranteed prospects and permanency to tall, educated gentleman of energy and business ability with necessary credentials. Write, first place, Zirci Co., Ltd., Bayley House, Coventry.

REPRESENTATIVES required in town and country to handle the old-established Kraska Nail Polish and allied specialities on a liberal commission basis; a sound connection amongst Chemists, Hairdressers, Stores, etc., is essential; advertising campaign now starting. Full particulars to the Kraska Co., Ltd., 65 Portobello Road, W.11.

TO gentlemen having sound connection with Wholesale and Retail Chemists. The M.M.T.P. Co. are widening the scope of their activities (for their popular pack in carton) and offer a profitable proposition to commission Salesmen in centres where not already represented. Write for terms of this daily commodity, with unlimited prospects; give particulars, ground covered, lines carried. The Miss Muffet Toilet Paper Co., 1 Julian Road, West Bridgford, Nottingham.

WANTED, three Representatives calling on Chemists and covering systematically the three following territories: (1) Cardigan, Carmarthen, Pembroke, Glamorgan, Brecon, Radnor, Monmouth, Hereford, and Gloucestershire; (2) Cheshire, Shropshire, Worcestershire, Anglesey, Carnarvon, Denbigh, Flintshire, Merioneth, Montgomeryshire; (3) Cornwall, Devonshire, Dorsetshire, Somersetshire, Hampshire, and Wiltshire, to carry a line that has been nationally and intensively advertised for the last 20 years; as each of these territories is lean it does not justify a whole-time job; what is required is a man who already representing a first-class house is in a position to represent another on a basis of commission on the whole turnover from the territory, or commission and part expenses; only gentlemen of repute and those actually working the ground in their own car need apply. 187/642, Office of this Paper.

COLONIAL, INDIAN AND FOREIGN.

FAR EAST.—A London firm of Manufacturing Chemists require a Pharmacist, age about 26, and single, for a position on the staff of their Far Eastern House, following a period of training in London; candidates should possess some knowledge of therapeutics and be able to show evidence of sound pharmaceutical training; previous foreign experience not essential. Apply, stating full particulars of age, qualifications, experience, etc., to 187/645, Office of this Paper.

SITUATIONS WANTED.

RETAIL (HOME).

2s. for 18 words or less, 6d. for every additional 10 words or less, prepaid. (Box No., 1s. extra.)

A.A.A.A.—CAPABLE Assistant, with initiative and initiative; tact; careful Dispenser, good Window-dresser; Photographic expert; unqualified; 28. Davies, 12 Naylor House, Albion Road, Clapham, S.W.8.

A—QUALIFIED Chemist; disengaged; would accept low salary for permanent or Locum berth. 41 Milford Road, Ruddington.

A—LOCUM; qualified; free till August 4; experienced man; moderate salary. "Pharmacist," 98 The Grove, Ealing, W.5.

A QUALIFIED Chemist, 25, well recommended, will shortly require a situation as Manager or Assistant in a middle- or good-class business; Prescriber, Window-dresser; London or Southern Counties; salary required 25; permanency essential; interview. "Chemist," 94 Walpole Road, Tottenham, N.17.

A QUALIFIED Chemist, young, tall, as Manager or Assistant; excellent experience and references; Lancashire or Yorkshire preferred, but not essential. 163/39, Office of this Paper.

AS General Assistant (lady); Counter and Toilet; experienced. "F. W.," 53 Chichester Road, Kilburn, N.W.6.

AS General Assistant (lady), 28; Counter and Toilet; experienced; disengaged; excellent references. "E. W.," Craythorne, New Romney, Kent.

AS MANAGER; capable; qualified; 29; exceptional all-round experience; control; thoroughly trustworthy; London or Southern Suburb; interview. 1 Lyndon Avenue, Wallington, Surrey.

ACTIVE, capable Assistant requires situation offering opportunity to take an interest and work hard in every branch; 9 years' experience. 165/23, Office of this Paper.

ADVERTISER; unqualified; 40; experienced; well recommended; disengaged; abstainer. Alexander, 189 Southampton Street, S.E.5.

ASSISTANT; competent; experienced Dispenser; good Salesman; accustomed to manage; single; middle-aged; active; unqualified. "Statim," 228 Lockwood Road, Huddersfield.

ASSISTANT; unqualified; 21; good experience; references; competent Dispenser; available end June-October. "Brom," 15 Ashland Avenue, Wigan.

ASSISTANT or Manager; 37; unqualified; married; 20 years' experience as manager and assistant; excellent Salesman, Dispenser, Window-dresser; accustomed to opening new shops and display work; prize Window-dresser; present berth 9 years. 165/32, Office of this Paper.

ASSISTANT, unqualified, 21, desires situation; permanency; season or Locum; good references. Squire, 57 Wingfield Road, Sherborne, Dorset.

ASSISTANT; unqualified; 21; disengaged till October; reliable Dispenser, smart Salesman, good knowledge Photography, Optics. Urquhart, Queen Street, Bridgend.

ASSISTANT or Manager; unqualified; 30 years' good all-round experience. Harris, c/o S. W. Galeley, "Summerfield Pharmacy," Birmingham.

ASSISTANT; unqualified; good Retail experience; permanency; London; twelve years London Store. Culliford, 33 Dupont Road, Raynes Park.

ASSISTANT (20) requires situation; Counter, N.H.I., etc.; East- and West-End experience; local preferred. "D. B.," 4 Redmans Road, Stepney, E.1.

ASSISTANT; unqualified; 39; Dispensing and Counter; could work up paint or seed trade; Notts or Derby. 168/11, Office of this Paper.

CAPABLE unqualified man; 39; Hall certificate; 6½ years last two situations; Dispenser, Counterman, Window-dresser, Photographic; season or permanent. 167/18, Office of this Paper.

CHEMIST-OPTICIAN, 35 years, with considerable earned capital and more experience than usual, wishes to find position of control with small multiple shop firm. 165/27, Office of this Paper.

DISPENSER (lady), Hall, desires position; accurate; experienced. "M. D.," 17 Tulsemere Road, West Norwood, S.E.27.

FULLY-TRAINED Chemist's Assistant, lady (Hall) requires post; 7 years' high-class experience, including London and Hospital; excellent references; would take Locum. "Prince," Flat 3, 31 Colville Square, Bayswater, W.11.

LADY (Hall) desires post; Locums (London area) or permanency; experienced Doctors. "Gentian," 48 Loughborough Road, Brixton, S.W.9.

LADY, young, 7 years' experience, Drug and Toilet, Cash Chemists, desires similar post; excellent references. Box A.R.354, 55 Bryanston Street, W.1.

LADY, unqualified, disengaged July, desires post in Bristol; would accept reduced wages to gain experience. Warner, Berkeley, Glos.

LADY, Locum Dispenser (Hall), experienced, free June 20 to July 4 and July 11 to 25; Doctor or Hospital. Miss Eales, "The Cottage," Littleworth, Green's Norton, Towcester.

LADY Dispenser-Book-keeper (Hall certificate), doctor's daughter, requires post; four years' experience; excellent testimonials. "R.," Montrose, St. Cross Road, Winchester.

LADY (Hall) desires post, Doctor or Chemist; six years' experience, Dispensing and Counter; London or Southern England preferred. 167/39, Office of this Paper.

LADY, unqualified, competent, experienced, desires change; suit Pharmacist requiring real helper. 166/13, Office of this Paper.

LOCUM or relief; unqualified; moderate salary; Dispensing and Counter work; middle-aged; disengaged. Hill, 45 Alma Road, Carshalton.

LOCUM; qualified; experienced; vacant dates, July 6-11, July 20-August 8. Wrather, West Crescent, Darlington.

LOCUM.—Pharmacist desires situation; London district preferred; abstainer; reliable and active; salary £4 a week outdoors or equivalent indoors; disengaged. Summers, 98 Greyhound Lane, Streatham Common, S.W.16.

LOCUM, relief, Manager; "not registered"; 20 years' experience; Dispensing, Stock, Counter, Salesman, Prescriber. "G.", 130 Scott-Ellis Gardens, N.W.8.

LOCUM or permanency; unqualified; competent; active; reliable; Prescriber; abstainer; single; engaged Nottingham, June 15 to July 26, also Derby, August 17 to 30; vacant July 27 to August 16 and August 31 onwards. Howard, 30 Pimlico, Ilkeston (Derbys).

LOCUM; middle-age; active; been in own business; well recommended; free end of June; anywhere. "Chemist," 66 High Street, Hastings.

LOCUM; qualified; disengaged; permanency accepted. Whitehouse, c/o Dyson, West Bar Green, Sheffield.

LOCUM; qualified; only open dates June 29 till July 25 inclusive. Jones, 57 Brown Road, E.17. 'Phone: Chiswick 4918.

LOCUM; unqualified; experienced; disengaged June 15 to July 11, July 20 to August 1, August 31 to September 19. "Chemicus," 72 Tremadoc Road, Clapham, S.W.4.

LOCUM; qualified; 35; managerial experience; open dates till August 3; free immediately. "Chemist," 5 Cheltenham Road, S.W.4.

LOCUM; qualified; reliable; free June 25 to August 1. Thomas, 37 Downs Road, Clapton, E.5. 'Phone: Clisold 9324.

LOCUM, Part-time, Relief, 30 years' varied experience, now booking dates; moderate. "Chemicus," 55 Clarence Street, Gt. Clowes Street, Manchester.

LOCUM or permanency; qualified; 24; excellent references; 2½ years branch manager; disengaged June 29. 167/30, Office of this Paper.

LOCUM; qualified; lady; Square trained; experienced Hospital, Retail; free June 20-July 11, August 22 onwards; London, suburbs. Phillips, 17 Scutari Road, East Dulwich, S.E.22.

LOCUM; qualified; experienced; well recommended; free until July 4 and after August 15. Smith, 1 Thurlow Road, Leicester.

MANAGEMENT required by qualified Pharmacist and Optician; S.E. Counties preferred; capable, reliable, keen; own Optical equipment; temporary position entertained; disengaged early July. "F.B.O.A.," Jones, Ltd., Redruth, Cornwall.

MANAGER or Assistant; qualified; good experience, London, Continental and provincial; good Counterman and Dispenser; abstainer; healthy; middle-aged; outdoors; moderate salary; now at liberty. P.C.B. 52/9, Office of this Paper.

MANAGER or Locum; 38; first-class experience Pharmacy and Photography; excellent references; live in, or lock-up. Findlay, 62 Lillie Road, S.W.6.

M.P.S. (lady, 23); good Dispensing and Counter experience; London or suburbs. 1 Hopefield Avenue, Brondesbury Park, N.W.6.

QUALIFIED; 43; excellent all-round experience; accurate Dispenser; Photographics; disengaged; Locum or permanency. 165/25, Office of this Paper.

QUALIFIED, 28, tall, requires position as Manager or Assistant; good all-round experience; excellent references. 167/34, Office of this Paper.

QUALIFIED Lady (young) desires post in London; locum or permanency; capable of taking charge; excellent experience; references; interview. 167/37, Office of this Paper.

WANTED, a Managership, with view to early succession, in Southern Counties by qualified, 25, with long company experience; Partnership might be considered. 167/16, Office of this Paper.

NAMES AND ADDRESSES.

When sending advertisements for any of the sections in this Supplement, advertisers—as a guarantee of good faith and not necessarily for publication—should always give their names and addresses. It sometimes occurs that this rule is not followed and delay and disappointment ensues. Strict attention to this detail will be appreciated.

YOUNG lady, 24, Hall certificate; good general experience; disengaged; Locum or permanency. 1 Vinter Hill, Upper Norwood.

YOUNG lady; age 23; good Dispenser; 6 years' Retail experience; Part I; disengaged owing to staff reduction; highest references; Doctor or Retail. Northam, 160 Elborough Street, Southfields, S.W.18.

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